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SQUARE BRAND SEEDS ALWAYS SUCCEED

1932



SHERMAN-MAGNOLIA SEED CO.

POULTRY SUPPLY HEADQUARTERS  
945 SO. LAMAR ST. --- DALLAS, TEXAS

Vegetable Seed Trials

JAN 18 1932

# FORTUNES ARE » » « MADE

## By Careful Planning and Doing

There are many successful farmers today—farmers whose farms pay, even though prices are low—but they are not farmers who raise one crop, only.

1932 must be a year of diversification. Every wise farmer will raise all of the vegetables—all of the fruits—and all of the meat his family needs, on his own farm. Of course there will be some surplus—probably some surplus of most of the things he raises—and that surplus should be sold each time he goes to town.

Among the principal lines of interest to the farmer of today should be poultry. If he raises most of his own poultry feed—which he certainly should—the cost of feeding poultry will be low. He is certain of a reasonable market for his eggs and for his broilers and fryers, in addition to having enough for his own needs.

The same thing is true of turkeys and hogs. Enough for his own needs—with some surplus for the market, and that surplus to be sold each time he must go to town for other requirements.

## Plan to Have High Grades to Sell

This will require good breeds of animals—the right stock in your poultry—and the planting of pure, tested seeds.

We are well prepared to supply you with the pure, tested seeds, which are proven to be **ABSOLUTELY THE BEST**, by test. We maintain our own experimental grounds in Dallas, where constant field trials are being made, not only insuring the superiority of **SQUARE BRAND SEEDS**, but protecting and assuring you of seeds of the highest quality.

We maintain our seed testing laboratory and every lot of seed received into our house is tested for germination and purity, on arrival.

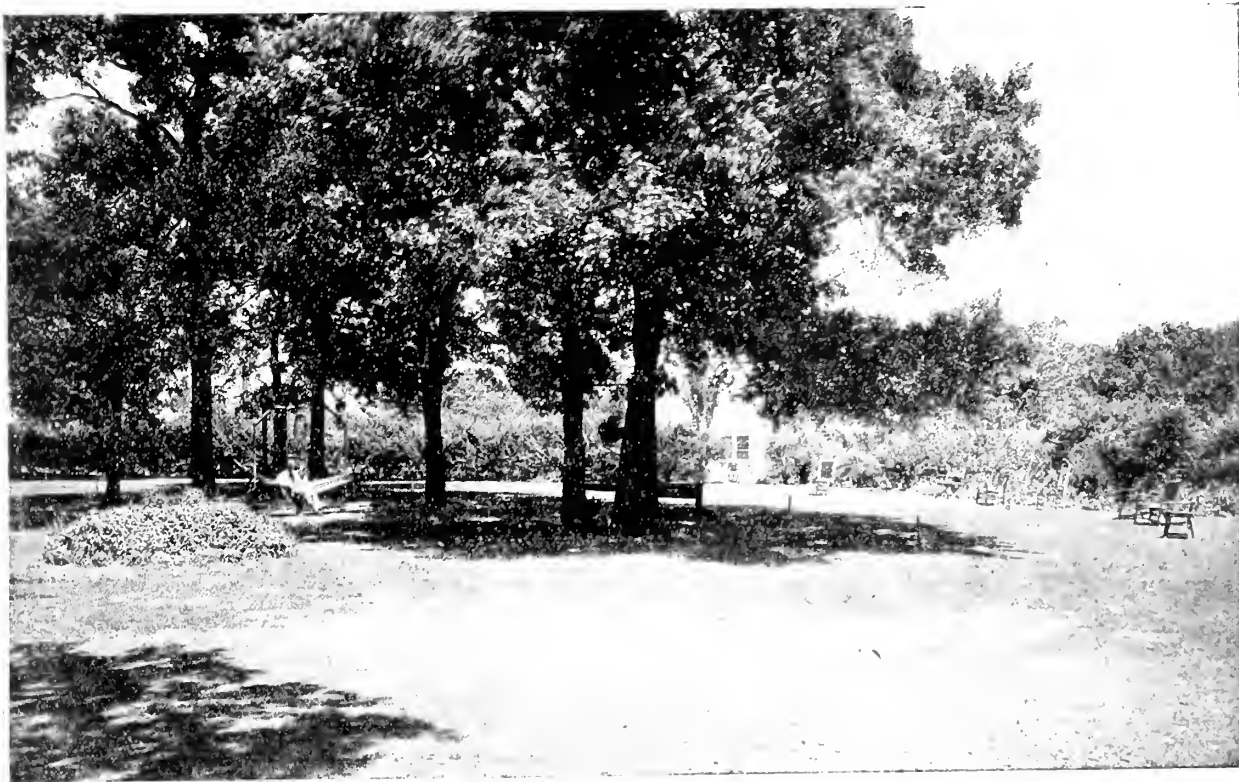
That we understand the needs of the farmers, market gardeners and poultrymen of this territory is proven by the growth and standing of our business. We keenly appreciate the business you have given us in the past and will continue to show our appreciation in the very practical way of giving you **FULL VALUE FOR YOUR MONEY; AND GOOD MEASURE, BOTH IN QUALITY OF SEED AND SERVICE.**

## SHERMAN-MAGNOLIA SEED COMPANY

SHERMAN, TEXAS

DALLAS, TEXAS





The Grove and Lawn at Entrance to Our Experimental Farm.

## Your Outdoor Living Room

**YOUR LAWN** is the carpet of your outdoor living room, and without a beautiful, velvety carpet you cannot enjoy your yard to the fullest. You want beautiful shrubs—handsome flowers and sturdy trees, of course, but these cannot be enjoyed completely, unless they are accompanied by a soft, welcoming, vividly green lawn.

**IN MAKING A NEW LAWN**, the ground should be well prepared and in a fine state of cultivation. Then give it a dressing of Vigoro Plant Food, at the rate of four pounds per 100 square feet. Sow the grass seed at the rate of about one pound per 250 square feet; then rake the lawn over thoroughly, and roll if possible. Keep it well sprinkled. The lawn should be fed three times each year—in the spring, in the mid-summer, and in the fall—so that you may have a green lawn all year round.

The following lawn grasses are the best on the market. Mixtures have been carefully chosen for this section and we especially recommend our Evergreen Mixture for a year 'round lawn.

**SQUARE BRAND LAWN MIXTURE**—This mixture is the result of a close study of grasses suited for lawn-making in the South. We have taken only those that will give you a velvety lawn under the most trying conditions of summer heat and drouth. **Prices: Lb. 80c; 5 lbs. \$3.85; postpaid.**

**SQUARE BRAND SHADY MIXTURE**—This is a mixture of grasses that thrive in shaded situations under trees, or close to walls where there is very little sun. **Prices: Lb. 80c; 5 lbs. \$3.85; postpaid.**

**SQUARE BRAND GOLF LINKS MIXTURE**—This is a mixture of hardy grasses adapted to golf courses, which improves with tramping. We know of no better mixture on the market today. **Prices: Lb. 80c; 5 lbs. \$3.85; postpaid.**

**SQUARE BRAND EVERGREEN MIXTURE**—This mixture is composed of fine-leaved hardy grasses, which will not only stand the heat of summer, but outlive the severest winters. If you sow this mixture you will have a beautiful lawn all year. Do not be afraid of sowing grasses too thickly, as a heavy seeding always means a better sod. We recommend sowing one pound to 250 square feet. **Prices: Lb. 80c; 5 lbs. \$3.85; postpaid.**

**SQUARE BRAND WINTER LAWN MIXTURE**—During the month of October, sow this mixture at the rate of one pound to 250 square feet. Before sowing, mow the lawn very close, and if the Bermuda is very thick, give it a top dressing of one inch of loamy soil and Vigoro. Afterwards rake the lawn over thoroughly so as to mix the seed and soil and then keep it well watered, until the grass begins to grow. This grass will die down when the weather gets warm and the Bermuda Grass takes its place. **Prices: Lb. 50c; 5 lbs. \$2.35; postpaid.**

**SQUARE BRAND BERMUDA SEED**—The ideal grass for the South for summer lawns. Plant in the spring or late summer, when the weather is warm and moist. If sown before a rainy season, the seed will come up in a short time; but otherwise it germinates slowly. **Prices: Lb. 70c; 2 lbs. \$1.30; postpaid. Not prepaid: Lb. 55c; 10 lbs. \$4.50. Ask for prices on larger quantities.**

SEE  
BACK COVER  
FOR INDEX

## For Your Outdoor Living Room



**SELECT GOOD SEEDS**, bulbs and plants and feed everything you grow with Vigoro, the complete, balanced plant food. Vigoro contains every element necessary to produce velvety-green lawns; large, richly colored flowers, full-foliaged shrubs and trees; early delicious vegetables. It is "the SQUARE MEAL for all plants." And remember your plants usually need three meals a year. 4 lbs. to the 100 square feet in the spring; 2 lbs. in the summer and 2 lbs. in the fall.

Clean, odorless and economical. Vigoro is easy to use. Simple directions for feeding everything you grow accompany every bag or package. **Prices: 100 lb. bag \$5.00; 50 lb. bag \$3.00; 25 lb. bag \$1.75; 5 lb. package 50c; 12 oz. package 10c; F. O. B. Dallas.**



A Well Fed Living Room.

# Square Brand Hi-Germinating Vegetable Seeds

## Square Brand Artichoke

**GREEN GLOBE**—The scales and bottom of the flower heads are eaten, either boiled or as a salad. Sow in hotbeds or indoors until danger of frost is over. Then set in rows 4 feet apart and 2 feet apart in the row. Later in the fall cut off the old tops and thoroughly protect the crowns with leaves or straw to prevent severe freezing. Prices: Pkt. 10c; 1/2 oz. 35c; oz. 65c; postpaid.

## Square Brand Asparagus Roots

**WASHINGTON ASPARAGUS ROOTS**—A vigorous growing and very productive variety. It is the most uniform in type of any of the rust-resistant varieties. Two years old. Prices: 50 roots \$1.25; 100 roots \$2.25; postpaid.

**PALMETTO ASPARAGUS ROOTS**—Two years old. Prices: 50 roots \$1.00; 100 roots \$1.50; postpaid.

## Square Brand Garden Beans

INOCULATE WITH NITRAGIN

Square Brand garden beans are grown especially for us under growing contract with the most reliable breeders and growers in the country. They are produced from the very best stock seed and are grown in sections free from blight and other plant pests.

**CULTURE**—Beans are very sensitive to both cold and wet and it is useless to plant them before the ground has become dry and warm. The largest returns will result from planting in drills two feet apart.

Cover the seed 1 1/2 inches deep and thin the young plants three to six inches apart in the row. The plants up to the time of blossom should have shallow cultivation. If any mutilation of the roots by cultivation after the plants come into bloom should occur it is likely to cause the blossoms to blast, and thereby cut off the crop. A light, rich, well-drained loam which was manured for the previous crop is most desirable. A packet will sow 25 feet of row, one pound to 100 feet, and 60 pounds to acre.

### Green Pod Bush Beans

**BLACK VALENTINE**—Our stock produces an abundance of beans that are perfectly round, straight, and of beautiful green color. Market gardeners find this variety a profitable one to grow, as the pods are handsome in appearance and good quality. Suited for both early and late planting. A wonderful yielder. This variety is ready for table use in about 42 days from the time of planting. Prices: Pkt. 10c; 1/2 lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**BOUNTIFUL**—This is a variety that is exceedingly popular, especially with commercial truckers along the Gulf Coast. The plant is of thrifty growth and practically rust and mildew-proof. It is very hardy, extremely early, prolific, and bears continually for several weeks. The pods are light green, and are of large size; thick, broad, flat, extra long, very uniform in shape, solid, meaty and of high quality. Moreover, the pods are absolutely stringless and are ready for table use in about 44 days after planting. Prices: Pkt. 10c; 1/2 lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**BURPEE STRINGLESS GREEN-POD**—This variety is a favorite with a large number of truckers and gardeners in the South, and is also grown for canning purposes. It is one of the finest green-pod bush beans in existence. The pods are medium green, five to six inches long, cylindrical, and are quite fleshy and remain crisp and tender for some time. This variety is very productive, and the pods are absolutely stringless. Ready for picking in 42 days after planting. Prices: Pkt. 10c; 1/2 lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**GIANT STRINGLESS GREEN-POD**—This is a very desirable green-podded variety for the home garden and also for truckers. The handsome round pods are 6 to 7 inches long, dark green in color, brittle and perfectly stringless. It is one of the most productive sorts and can be picked in one-third the time of any other variety. This variety has achieved much popularity in Texas, Louisiana and other Southern states where it is grown on a large commercial scale for shipment to northern markets. It is not quite as early as Burpee Stringless, as it is ready for picking in 44 days after planting. Prices: Pkt. 10c; 1/2 lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**IMPROVED RED VALENTINE**—This is another variety that is planted largely by truckers and gardeners for shipment to northern markets. The plants are of medium size with dark green leaves. The pods are of medium length, about five inches long, medium green color, curved, cylindrical and very crisp and tender. Will stand more adverse conditions than any other dwarf sort. This variety is ready for picking in 44 days after planting. Prices: Pkt. 10c; 1/2 lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

Square Brand Beans are produced from the finest stock seed and are free from disease.



Giant Stringless.

**REFUGEE or 1000 TO 1**—A standard and highly esteemed variety for late planting, and is extensively used for shipping and canning. The pods are about five inches long, round, slightly curved, light green in color and of excellent quality. This variety is especially resistant to drouth, cold and unfavorable growing conditions. It is largely used by commercial truckers for nearby markets and long-distance shipping, and matures in about 51 days. Prices: Pkt. 10c; 1/2 lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**TENNESSEE GREEN-POD**—This is a very hardy bean and a good yielder of large, very flat pods, 6 to 7 inches long, dark green color and excellent flavor. It is not entirely stringless, and its chief recommendations are earliness and vigor. This variety is planted very extensively in the South, and bears edible pods in about 43 days. Prices: Pkt. 10c; 1/2 lb. 25c; lb. 45c; 2 lbs. 80c; postpaid. Ask for prices in larger quantities.

### Wax or Yellow Pod Bush Beans

**PROLIFIC BLACK WAX**—This is a standard variety but is not as popular as the Pencil-Pod Black Wax. The pods are round, about 5 inches long, fleshy, brittle and stringless. They are a deep yellow in color and very attractive. Ready for table use in about 43 days after planting. Prices: Pkt. 10c; 1/2 lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.



Improved Red Valentine.

## Bush Beans (Continued)

**PENCIL-POD BLACK WAX**—This is one of the best dwarf black-seeded waxed varieties. It is early and very productive. The pods are large, a beautiful yellow and are from 6 to 7 inches long. They are well rounded, meaty and deeply saddle-backed. They are brittle, entirely stringless and of excellent quality. This is a vigorous grower and is not susceptible to disease as are other wax-podded sorts. The pods are edible in about 48 days. **Prices:** Pkt. 10c; 1/2 lb. 20c; 1 lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**GOLDEN WAX**—This is probably one of the most popular of the wax variety. It is very early, and quite productive. The pods are from 4 to 5 inches long, very stout, straight, or slightly curved and oval in form. The flesh is brittle, stringless and of good quality. The pods are bright yellow in color and are very attractive. The pods are edible in about 42 days after planting. **Prices:** Pkt. 10c; 1/2 lb. 25c; 1 lb. 45c; 2 lbs. 80c; postpaid. Ask for prices in larger quantities.

**SURECROP WAX**—This variety is absolutely stringless at all stages of its growth. The pods are about 6 inches long, flat, thick and meaty. The plants are very thrifty and hardy and are blight-resistant. The pods are edible in about 45 days, and nearly all the pods are produced beneath the foliage. It is also used extensively for canning purposes. **Prices:** Pkt. 10c; 1/2 lb. 20c; 1 lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**WARDWELL KIDNEY WAX**—This is one of the earliest and hardiest of the wax varieties. The plants become loaded with long broad and flat, beautifully waxed pods which are stringless and exceedingly brittle. The pods are about 6 inches long and of excellent quality. The pods are edible in 44 days after planting. **Prices:** Pkt. 10c; 1/2 lb. 25c; 1 lb. 45c; 2 lbs. 80c; postpaid. Ask for prices in larger quantities.



Pencil-Pod Black Wax.

## Pole or Running Beans

**CULTURE**—Pole beans are more sensitive to climatic conditions than are the bush varieties, but are superior in quality and productiveness. When the ground is warm, set poles four to eight feet long, slanting slightly to the north in rows four feet apart, extending north and south, the poles being three feet apart in the row. When the poles are arranged this way the vines can climb more readily and the pods are straighter and more easily seen. Around each stake plant five to eight beans, two inches deep and when well started, thin to four plants. Use one packet to twenty poles, one pound to 100 poles, 30 pounds to the acre.

**KENTUCKY WONDER**—This is the most popular and widely planted of all pole beans. It is an early, very productive variety with showy pods which are of excellent quality. The vines are vigorous and very productive, bearing pods in large clusters. The pods are green, round, meaty, tender, practically stringless and grow 6 to 12 inches long. The pods are edible in about 60 days after planting. **Prices:** Pkt. 10c; 1/2 lb. 25c; 1 lb. 40c; 2 lbs. 75c; postpaid. Ask for prices in larger quantities.

**KENTUCKY WONDER WAX**—This is one of the earliest of the pole wax varieties. The pods are from 8 to 9 inches long, thick, decidedly crease-backed, very fleshy, brittle, but stringy. The variety is also a prolific yielder and the pods are light yellow in color. This variety matures in 58 days from planting. **Prices:** Pkt. 10c; 1/2 lb. 25c; 1 lb. 45c; 2 lbs. 80c; postpaid. Ask for prices in larger quantities.

**WHITE CREASEBACK**—This is an early maturing, green-podded variety, and is very hardy and productive. The pods are round and slender, slightly stringy, brittle and fine-grained. The pods are light green in color and very fleshy. This variety matures edible pods in about 54 days after planting. **Prices:** Pkt. 10c; 1/2 lb. 20c; 1 lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**STRIPED CREASEBACK**—A very hardy and productive cornfield bean. The pods are from 6 to 7 inches long, round, straight and creaseback. This is a very prolific variety and the vines are vigorous. The pods are light green in color and slightly stringy. This variety matures in about 54 days. **Prices:** Pkt. 10c; 1/2 lb. 20c; 1 lb. 40c; 2 lbs. 75c; postpaid. Ask for prices in larger quantities.

**MCCASLAN POLE BEAN**—This is the heaviest bearing bean in existence. The large size pods fill perfectly and are deep green in color, meaty, stringless and of delicious flavor. The vines continue to bear throughout the season if kept closely picked. The dry beans are white, of good size, and excellent for winter use. Ready to pick in 60 days. **Prices:** Pkt. 10c; 1/2 lb. 25c; 1 lb. 45c; 2 lbs. 80c; postpaid. Ask for prices in larger quantities.

## Bush Lima or Butter Beans

**CULTURE**—Plant when ground is dry and weather warm in rows 2 feet apart, dropping the beans 6 inches apart in the row, eye down, covering with one inch of soil. May also be planted in hills, 3 feet apart one way, 2 feet apart the other way, using four to six beans to the hill. One pound will plant 100 hills, or 100 feet of row, 60 pounds will plant an acre.

**FORDHOOK BUSH LIMA**—The very best large-seeded bush lima bean. It produces a straight, erect, true, bush-like growth. The pods are borne in clusters of from 4 to 8 pods to the cluster and the pods measure from 4 to 5 1/2 inches long. The pods contain an average of four large beans, and mature in about 60 days. **Prices:** Pkt. 10c; 1/2 lb. 30c; 1 lb. 50c; 2 lbs. 90c; postpaid. Ask for prices in larger quantities.

**HENDERSON BUSH LIMA**—The earliest of all bush limas, and two weeks earlier than any of the climbing varieties. The plants are without runners but continue to grow and set pods until stopped by frost. This variety is used extensively by canners as well as for home and market use. **Prices:** Pkt. 10c; 1/2 lb. 25c; 1 lb. 40c; 2 lbs. 75c; postpaid. Ask for prices in larger quantities.



Kentucky Wonder Bean.



White Creaseback.



Henderson's Bush Lima.

## Bush Lima or Butter Beans (Continued)

**JACKSON WONDER BUSH LIMA**—This is the most productive and one of the earliest of the bush limas. It bears in great profusion broad flat pods, each having from 3 to 5 medium-size beans which cook quickly. This variety is good for summer use and as a winter shell bean, and is a splendid bean for the home garden. **Prices:** Pkt. 10c; ½ lb. 25c; lb. 45c; 2 lbs. 80c; postpaid. Ask for prices in larger quantities.

## Pole or Running Lima Beans

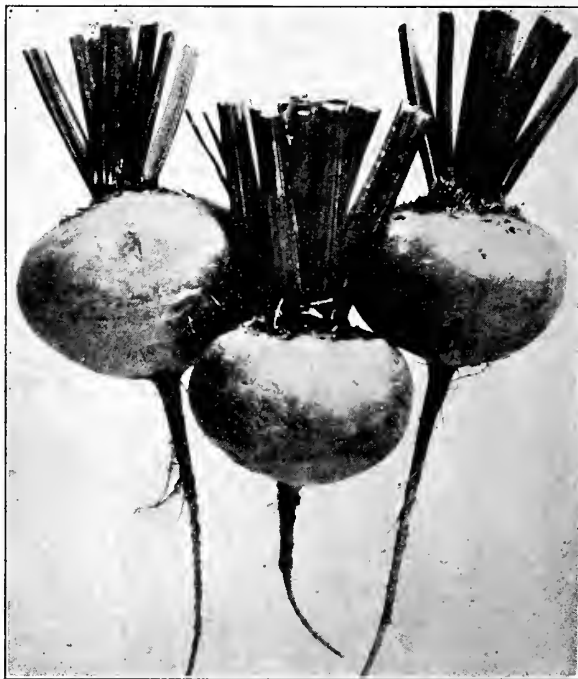
**CULTURE**—The culture is the same as other pole beans, except the seed is planted two weeks later. One pound will plant 100 hills; 30 pounds will plant an acre.

**CAROLINA or SIEVA**—This is a very early and reliable small-seeded pole lima or butter bean that is especially adapted for planting in the southern states. The pods are dark green, short, about 3 inches long, curved and flat. This variety is planted by market gardeners for shipments to northern markets. **Prices:** Pkt. 10c; ½ lb. 25c; lb. 40c; 2 lbs. 75c; postpaid. Ask for prices in larger quantities.

**FLORIDA SPECKLED BUTTER BEAN**—This is a very early variety and blooms and bears profusely all the season. It bears pods from the very first bloom that appears on the plants, which is not true of any other pole lima bean. The seeds and pods are about the size of the Carolina or Sieva Lima but are speckled white and brownish-red. **Prices:** Pkt. 10c; ½ lb. 25c; lb. 45c; 2 lbs. 80c; postpaid. Ask for prices in larger quantities.

**KING OF THE GARDEN**—The pods are large, numerous and well filled. This is a productive and vigorous mid-season variety. The pods are from 4 to 5 inches long, very flat and contain from 3 to 4 beans. **Prices:** Pkt. 10c; ½ lb. 25c; lb. 50c; 2 lbs. 90c; postpaid. Ask for prices in larger quantities.

INOCULATE  
ALL BEAN  
SEED WITH  
NITRAGIN



Crosby Egyptian.

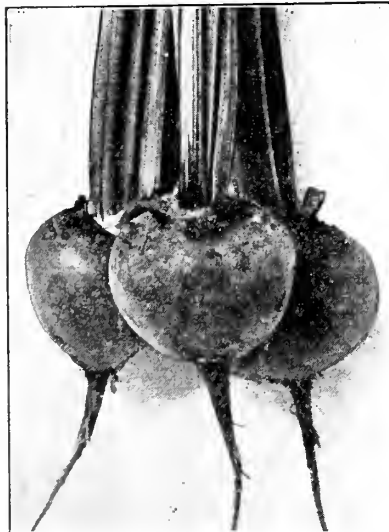
## Square Brand Table Beets

**CULTURE**—The best results are obtained on a deep, rich, sandy loam. Sow as early as the ground can be prepared in drills 18 inches apart and thin out to three or four inches in rows. Planting in succession you can still be having tender greens when the roots are pulled for canning. Beets are easily stored for use during the winter. Always sow in freshly prepared soil, which should be pressed firmly over the seed. A packet will sow a row 25 feet long; one ounce 75 feet; 5 pounds per acre.

**CROSBY EGYPTIAN**—This is one of the finest strains of Beet Seed that is planted today. The small top of this variety makes it especially desirable for bunching. The roots are a flattened, globe shape and very smooth. The exterior color of the root is bright red and the flesh is bright vermillion-red zoned with a lighter shade. It is very sweet, tender and of excellent quality. This variety can be pulled and bunched in 75 days after planting. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

**EARLY BLOOD TURNIP**—The roots are nearly round or slightly flattened and are bright red in color with zonings of a lighter shade. This is a good variety for the home garden. This variety is ready for table use in about 83 days after planting. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

IT PAYS TO  
RAISE ALL THE  
VEGETABLES  
YOU USE  
IN YOUR OWN  
HOME.



Detroit Dark Red.

**DETROIT DARK RED**—This is one of the best beets for market or home garden and on account of its uniformly rich color the most desirable for canning. The roots are medium-size, globular or nearly round, very smooth and of dark blood-red color. This is a desirable bunching variety, although a little later than the Crosby Egyptian. It is ready for bunching in 78 days after planting. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

**EARLY ECLIPSE**—This is an early variety with small tops and is used by a number of market gardeners for bunching. The roots are bright red in color and the flesh is bright red. This variety is ready for bunching in about 75 days after planting. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

**LONG SMOOTH BLOOD**—This is a long deep red beet and by far the best for winter or spring use. The roots are deep red, long, smooth and uniform in shape. A fine variety for the home garden. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

**SWISS CHARD or SPINACH BEET**—An outstanding green-leaved Swiss Chard. Leaves are almost identically like that of spinach, dark green in color. Swiss Chard will produce greens all summer, and is therefore available when spinach cannot be obtained. May be cooked and served as "boiled greens." **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

Protect your seeds from disease by disinfecting them with Semesan. See page 24 for more information.



## Broccoli

**CULTURE**—The same as Cauliflower. A packet will produce about 100 plants; one ounce will produce 1,500 plants.

**ITALIAN GREEN SPROUTING**—Italian strain, a variety that is becoming very popular in this section. The head is a compact cluster of tightly closed flower buds and resembles cauliflower only in shape. Served the same as asparagus. It is adapted to growing in spring, summer and fall. **Prices:** Pkt. 10c; ½ oz. 40c; oz. 75c; ¼ lb. \$2.00; lb. \$7.50; postpaid. Ask for prices in larger quantities.

## Select Cabbage Seed

**CULTURE**—For early crop sow seed of the early varieties in hotbeds, or in a box that can be housed any time from the middle of December to the end of January. Plant out at the end of February or beginning of March in rows 2 feet apart and 18 inches between plants in row. For late or winter crops, the seed is sown in May and the plants set out in July.

Don't have the soil in the seedbed as rich as the field to which the cabbage is transplanted, or the plants will be starved after transplanting. Don't seed too thickly or force the growth too rapidly or the plants will grow too tall, slim and tender, and the growth be more seriously checked by adverse conditions. Root deeply to resist drought. When planting out, set to the first leaf on stems. Supply plenty of manure. A packet will produce 150 plants; an ounce 1,500 plants; ½ pound will produce sufficient plants to set on an acre.

### Early Varieties

**EARLY JERSEY WAKEFIELD**—This is the earliest and surest heading of the early cabbages for the market or home garden. Most of the market gardeners depend upon it for the bulk of their extra early crop. The plants are exceedingly hardy, not only resisting cold but other unfavorable conditions. They are compact and erect with few outer leaves, which are smooth, thick, nearly oval and a deep green; the stem is short and the heads are of medium size, very solid and uniformly pointed. Matures in about 70 days. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00; postpaid. Ask for prices in larger quantities.

**COPENHAGEN MARKET**—This is the earliest large round-headed cabbage that has been introduced. The heads are very solid and of most excellent quality. The plants are vigorous but compact with short stems and few outer leaves, which are of rather upright growth. This is an excellent sort both for market and home garden. Our strain of this variety has been carefully bred for earliness, uniformity and maturity. Matures in 88 days. **Prices:** Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50; postpaid. Ask for prices in larger quantities.

**CHARLESTON OR LARGE WAKEFIELD**—This is one of the finest spring varieties for the South. The heads, when mature, average from 10 to 12 pounds each. The heads are of equal size and very solid and hard. This variety is remarkable for its quick growing habit and it is fully two weeks earlier than the flat-head variety. The plants, owing to their compact growth and few outer leaves, can be set close together, and yield an enormous size crop per acre. They are usually crisp and sweet and mature in about 85 days. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00; postpaid. Ask for prices in larger quantities.

### Second Early Varieties

**ALLHEAD EARLY**—This is an excellent second early market variety that produces heads that are very large for so early a cabbage and they are of good quality. The plants are compact with few outer leaves. The stem is short and the heads are solid and flat but very deep. They mature in about 100 days. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00; postpaid. Ask for prices in larger quantities.

**ALL SEASON**—This is a desirable large cabbage of intermediate season and adapted for fall and late summer use. The heads are nearly round or somewhat flattened, very solid and of excellent quality. This variety is considered one of the most desirable for kraut. It is remarkable for its ability to stand the hot sun and dry weather; remaining an exceptionally long time in condition for use. Matures in about 110 days. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00; postpaid. Ask for prices in larger quantities.

**CHINESE OR PE TSAI**—This variety is straight and has short leaves. It makes a solid head with few outer leaves and matures quickly. The heads usually mature in about 60 days. The shape of the head somewhat resembles celery and for that reason this variety is sometimes called Celery Cabbage. It is an enormous yielder and is sometimes planted by poultrymen to supply green feed for their chickens. It is very palatable if boiled like cabbage but must be cooked quickly. **Prices:** Pkt. 10c; oz. 25c; ¼ lb. 80c; lb. \$2.75; postpaid. Ask for prices in larger quantities.

### TREAT BEFORE PLANTING WITH SEMESAN FOR DISEASE PROTECTION

Treat seeds of the following vegetables with Semesan, to prevent disease:

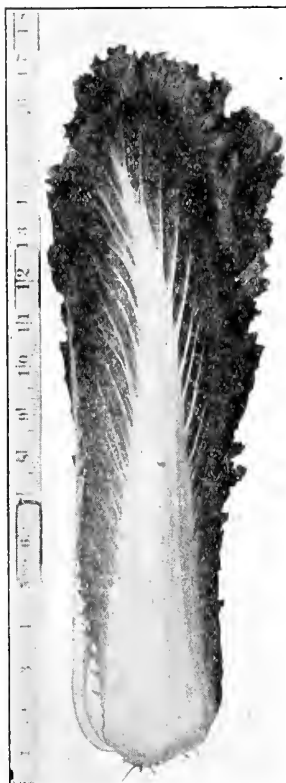
Beans	Artichoke
Beets	Asparagus
Cabbage	Cauliflower
Celery	Swiss Chard
Carrots	Corn (Sweet)
Collards	Cucumbers
Endive	Eggplants
Kale	Horseradish
Kohlrabi	Muskmelon
Leek	Cantaloupes
Lettuce	Watermelons
Pumpkins	Potatoes
Squash	Radish
Mustard	Rhubarb
Onions	Rutabaga
Parsley	Salsify
Parsnip	Spinach
Peas	Sweet Potatoes
Pepper	Tomatoes
	Turnips



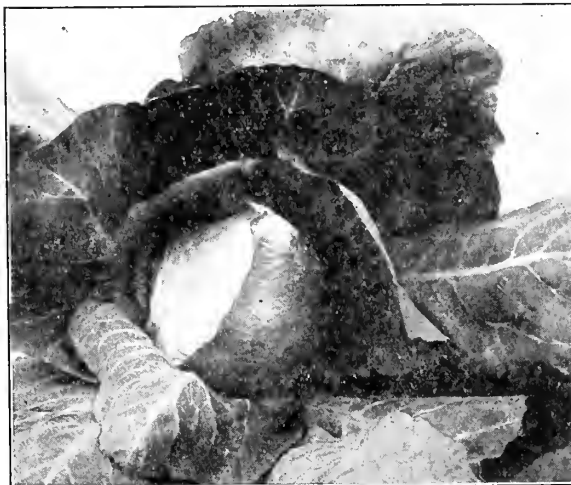
Italian Green Sprouting Broccoli.



Copenhagen Market.



Chinese or Pe Tsai Cabbage.



Charleston Wakefield Cabbage.



Stein's Flat Dutch Cabbage.

## Square Brand Frost-Proof Cabbage Plants

We are having grown in sections of Louisiana and Texas a large number of frost-proof cabbage plants. These frost-proof plants usually withstand the cold winter in Texas and Louisiana; however, frost-proof does not mean freeze-proof. The plants when received by our customers will be somewhat wilted, which will be disappointing to persons who have not used these plants before. Regardless of appearance they will produce splendid crop results. Plants cannot be pulled or shipped when the fields are wet and for that reason there may be a little delay, if your order is received when the fields are in such a condition. If you do not receive your plants as quickly as you expected them you will know that weather conditions have prevented us from making shipment and that your order will be filled just as soon as it is possible to pull the plants. We would suggest that you send in your order two weeks before you expect to set the plants out, and you will then get them on time. If the plants cannot be set out the same day that they are received take them from the crate or package immediately, dip the roots in water and heel them out in the ground, spreading the bunches a little, and they will keep for some

## Second Early Varieties of Cabbage (Continued)

**STEIN'S FLAT DUTCH**—This is the best and largest early flat cabbage for the South. The heads often weigh 20 pounds and are very solid and of fine quality. It is a dwarf compact sort, allowing close planting, and very uniform in growth. Practically every plant will form a very large solid head and mature earlier than any other variety of equal size. It is highly suitable for every growing season and for fall and early spring planting it is unexcelled. The plants are short-stemmed, compact and upright with few and short leaves. The heads are nearly round, somewhat flattened, close, firm and very solid. Matures in 95 days. Prices: Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00; postpaid. Ask for prices in larger quantities.

**LARGE LATE FLAT DUTCH**—The best type of late Flat Dutch and largely planted by our local gardeners. The plants are exceptionally vigorous with very large broad outer leaves which are moderately smooth. The heads are uniformly large. Matures in about 120 days. Prices: Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00; postpaid. Ask for prices in larger quantities.

**RED ROCK**—This is the best and largest heading of the red cabbage variety. It is very hardy and dependable and the heads are very solid, round and of a deep red color; often weighing 12 pounds each. This variety is used principally for pickling and is a sure-head variety. Matures in about 120 days. Prices: Pkt. 10c; oz. 25c; ¼ lb. 80c; lb. \$2.75; postpaid. Ask for prices in larger quantities.

### TREAT BEFORE PLANTING WITH **SEMESAN** FOR DISEASE PROTECTION

Prevent the many damaging diseases of vegetables, by disinfection of the seed with Semesan before planting. It destroys the destructive diseases on the seed and protects them from the rots in the soil, which results in increased stands of more vigorous, healthy plants, that yield larger, quality crops. Sprinkling of the seedling beds with Semesan solution effectively prevents damping-off. Easily applied as a liquid or dust. See page 24 for further information and prices.

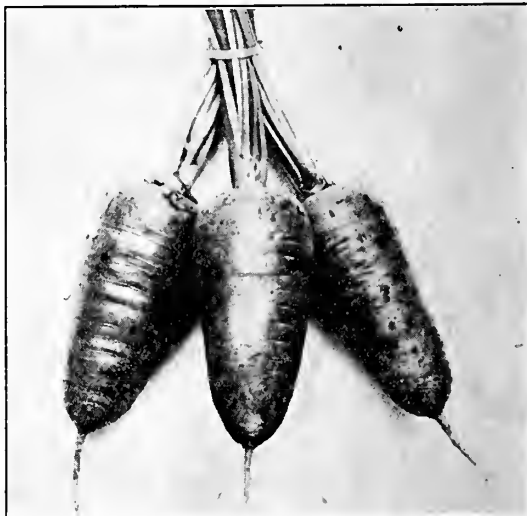
## Square Brand Carrots

**CULTURE**—While a sandy loam made rich by manuring the previous year is the best soil for the carrot, any good land, if thoroughly and deeply worked, will produce satisfactory crops. It is advisable to sow as early in the spring as the ground is fit to work. For table use, sow the small varieties early in rows 16 to 18 inches apart. For field culture, sow in drills 18 to 24 inches apart. Cover one-half to one inch deep and see that the soil is pressed firmly above the seed. As soon as the plants appear, use the cultivator or wheel hoe and thin to 2 to 6 inches apart in the row, according to the size of the variety. Use a packet to 6 feet of drill; an ounce to 100 feet of drill; 3 to 4 pounds to the acre.

**CHANTENAY**—This is a splendid bunch sort and very popular with market gardeners and truckers. The tops are medium sized with small neck. The mature roots are thick, 5 to 6 inches in length, uniformly half-long, stump-rooted but taper slightly. They are smooth and a deep orange-red in color. Although a medium early variety the roots are suitable for use as early as any, and can be pulled for bunching 85 days after planting the seed. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

**DANVER HALF-LONG**—This is a splendid half-long orange carrot; grown largely on account of its great productiveness and adaptability to all classes of soil. It is a desirable second early carrot for the home garden and is also suitable for field culture. The tops are of medium size and the roots are from 6 to 8 inches long, uniformly to the blunt point. The flesh is deep orange, tender and of good quality. This variety is also planted extensively by truck growers for bunching and largely shipped to northern markets. This variety is ready for bunching 90 days after planting the seed. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

**IMPROVED LONG ORANGE**—The roots of this variety are long and comparatively thick, often 12 inches in length and 3 inches in diameter at the crown, tapering regularly to a point. This late-maturing variety is suitable for table use as well as stock feed, and should be grown in light, deep rich soil. This variety is ready for table use in



Chantenay Carrot.

about 90 days, although it matures for stock feed somewhat later. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

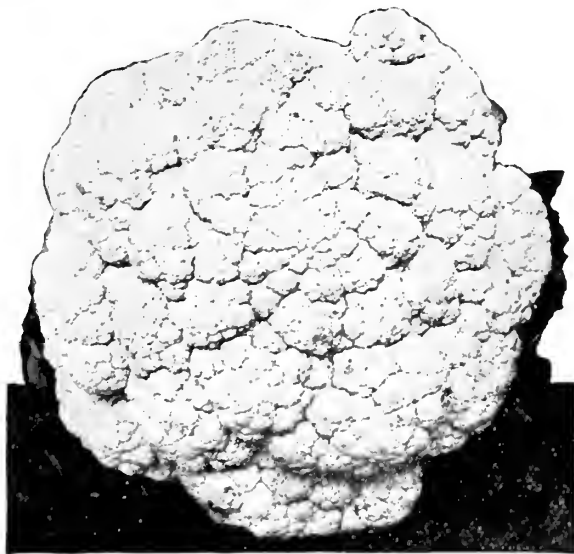
## Luscious Cauliflower from Your Own Garden

**CULTURE**—For spring and early summer crop, sow in February or March in a hotbed. If the soil is not too wet, it should be slightly pressed down to hasten germination. Transplant to cold frames when large enough to handle. Set out after all danger of hard freezing is past. The plants will endure a light frost. The soil should be like that for cabbage and if possible, the liberal use of manure will improve the quality of the heads.

For a fall crop, sow in July or August and treat the plants as explained above. To bleach the heads, tie the leaves over them. A packet will produce about 150 plants; an ounce about 2,000 plants.

**EARLY SNOWBALL**—This is unquestionably the earliest maturing strain of the true short-leaved Snowball type of Cauliflower. It is adapted for forcing or wintering over for early crop, and is the best sort for these purposes. It is also one of the best sorts for late summer and fall crop. It is a most desirable sort for the home garden. The plants are compact with few short outside leaves and are well suited for close planting. The heads are of medium to large size, solid, round, very white and are developed earlier than those of any sort. We have a strain of this variety that is unsurpassed by any in earliness and these seeds can be depended upon as being the very best that is being offered today. This variety matures in 100 days. Prices: Pkt. 15c; 1/2 oz. 75c; oz. \$1.25; 1/4 lb. \$4.25; lb. \$15.00; postpaid.

**DRY WEATHER**—This is an excellent second early variety, especially adapted for growing in open ground. It is recommended for localities subject to long dry seasons, as it will often produce heads of fine quality under these conditions when other sorts are a total failure. The heads are medium to large size, very solid, pure white and of fine quality. This variety is ready for use in 110 days. Prices: Pkt. 10c; 1/2 oz. 75c; oz. \$1.25; 1/4 lb. \$4.25; lb. \$15.00; postpaid.



Early Snowball Cauliflower.

## Celery

**CULTURE**—The seed is sown in February, March and April in a hotbed and transferred to a cold-frame to make them stocky and stronger. The seed should be covered lightly, and keep the bed moist to insure quick germination and vigorous growth. Work the soil up around the plants until they are covered to the tip. This insures bleaching. A packet will produce about 300 plants; an ounce about 3,000 plants.

**GOLDEN SELF-BLANCHING**—The finest early and most profitable celery in cultivation. It has a natural golden yellow plant, and blanches quickly. Matures in about 105 days. Prices: Pkt. 10c; 1/2 oz. 30c; oz. 40c; 1/4 lb. \$1.40; postpaid.

**GIANT PASCAL**—A compact, vigorous productive variety. Leaves are dark green, stalks short and thick. This variety matures in 118 days. Prices: Pkt. 10c; 1/2 oz. 20c; oz. 30c; 1/4 lb. 75c; postpaid.



Golden Self-Blanching Celery.

## Collards for "Greens"

**CULTURE**—A tall, loose leaved cabbage-like plant grown for winter greens. Largely used in home gardens for table use; also grown by many truckers for the market. Seed should be sown thickly, transplanting when 4 inches high or sow in drills where plants are to remain, and when well started thin to 2 or 3 feet apart in rows. One ounce to 200 feet of row; half pound for an acre.

**SOUTHERN or GEORGIA**—This variety is the old-time favorite and is very hardy. The plants grow 2 to 3 feet high, forming a cluster of tender leaves at the top of its rather long stem, and these leaves are used as "greens." In the South or West it will make a good crop when the soil is too poor to grow cabbage. Prices: Pkt. 5c; oz. 10c; 1/4 lb. 20c; lb. 65c; postpaid. Ask for prices in larger quantities.

**CABBAGE or WHITE**—This is a white heading variety of Collard that is as hardy as the ordinary collard but with better eating qualities. It does not grow as tall as the Georgia, but the leaves grow closer together on the stem. It is more tender and better flavored than the Georgia and grows fine in hot weather and stands winter cold that would kill cabbage. Prices: Pkt. 5c; oz. 10c; 1/4 lb. 25c; lb. 70c; postpaid. Ask for prices in larger quantities.

## Quality

SQUARE BRAND HI-GERMINATING SEEDS are the best money can buy. We have them grown for us under contract by the very best growers and these growers have been growing our seed for years. We are shipping larger quantities of SQUARE BRAND HI-GERMINATING SEED into the market gardening sections of Texas each year, and this indicates that our seed is giving entire satisfaction. We have followed rigidly our policy of giving our customers QUALITY seeds, and the growth of our business is indicative of the fact that this is appreciated. When you order SQUARE BRAND HI-GERMINATING SEEDS, you are assured of the very best and the price is in keeping with this quality.

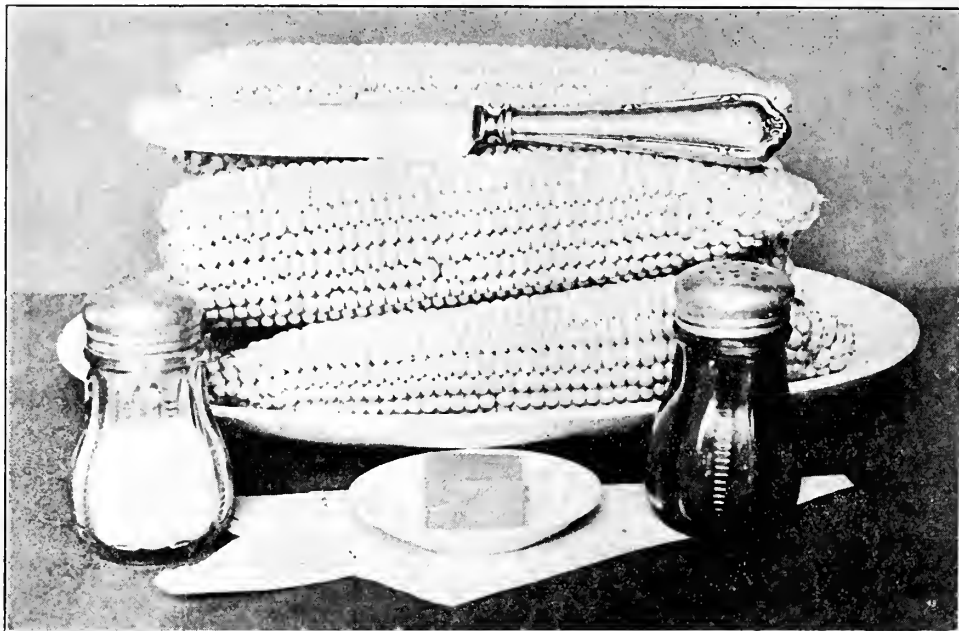


Southern or Georgia Collard.

## Tender Roasting Ear Corn

**CULTURE**—When planted in rows, the rows should be 3 to 4 feet apart, plant the seed 12 to 16 inches apart in the row, covering one inch deep with fine soil firmly pressed down. If planted in hills plant 4 to 6 grains to the hill; later thin so as to leave 2 to 3 stalks to the hill. One pound will plant about 200 hills; one peck (14 lbs.) to the acre.

Plant more corn for delicious roasting ears. Our seed of these varieties are unexcelled.



Stowell's Evergreen Sweet Corn.

## Sugar Varieties

**COUNTRY GENTLEMAN**—This variety has a small white cob, densely covered with irregular rows of very long slender white grains of excellent quality. The ears are 7 to 9 inches long. The stalks are from 6 to 7 feet high. It is well adapted for canning as well as the home garden and market, and many consider it the best of the late varieties. It matures in 75 days after planting. **Prices:** Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 60c; postpaid. Ask for prices in larger quantities.

**GOLDEN BANTAM**—This is an early sweet corn with golden-yellow grains, very tender and of excellent quality. The ears are 6 to 7 inches long and of medium size. The flavor is exceptionally rich and delicious. The stalks are 4 to 6 feet high. This variety is ready for use 65 days after planting. **Prices:** Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 60c; postpaid. Ask for prices in larger quantities.

**STOWELL'S EVERGREEN**—This is a standard main crop variety, and is much used for the home garden, market and canning. It is hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling. The ears are from 7 to 8 inches long and filled with very white grains. The stalks are about 7 feet tall. This variety is ready for table use in about 75 days after planting. **Prices:** Pkt. 10c; ½ lb. 15c; lb. 25c; 2 lbs. 55c; postpaid. Ask for prices in larger quantities.

## Sweet or Field Varieties

**EARLY ADAMS**—This is one of our leading varieties. It matures 60 days after planting. The ears are 7 to 8 inches long, and filled out with large white grains. The stalks are vigorous, growing about 6 feet in height and well-bladed. **Prices:** Pkt. 10c; lb. 25c; 2 lbs. 40c; 5 lbs. 85c; postpaid. Ask for prices in larger quantities.

**BLACK MEXICAN**—This corn when very young cooks remarkably white but the ripe grain is bluish-black. For home use we consider it the best second early sort for tenderness and sweetness, which are the qualities most desired. The stalks are about 6 to 7 feet high and the ears are about 8 inches long and well filled out. Matures in about 68 days. **Prices:** Pkt. 10c; lb. 25c; 2 lbs. 40c; 5 lbs. 85c; postpaid. Ask for prices in larger quantities.

**HICKORY KING**—This is a white variety of field corn which has the largest grains with the smallest cob of any corn in existence. The grains are so large and the cob so extremely small that when the ear is broken in two pieces a single grain will cover completely the cob section. A large number of market gardeners plant this variety, as the stalks are very vigorous and productive. This variety is ready for pulling as roasting ears in 75 days after planting. **Prices:** Pkt. 10c; lb. 20c; 2 lbs. 35c; 5 lbs. 75c; postpaid. Ask for prices in larger quantities.

**TRUCKERS' FAVORITE**—This is a wonderful early table corn and is only a few days later than Early Adams. The ears average from 12 to 14 inches in length, and being such a large ear commands the highest price on the market. This variety is slightly sweet, resembling sugar corn in taste and the ears are well filled with large white grains. The stalks are about 5 feet high and produce from 2 to 3

good ears to the stalk. Being hardy, it can be planted at the same time as Early Adams and it will stand a great deal of cold and wet weather. It is ready for table use in about 67 days after planting. **Prices:** Pkt. 10c; lb. 25c; 2 lbs. 45c; postpaid. Ask for prices in larger quantities.

**IOWA SILVER MINE**—This is a variety that is planted largely for early roasting ears by market gardeners, as the ears are from 9 to 12 inches long and are ready for use in 70 days after planting. The stalks are medium in height, ranging from 7 to 9 feet and are very leafy. The ears are filled with pure white grains, solidly set on a medium small white cob and are well filled out from butt end to tip end. **Prices:** Pkt. 10c; lb. 20c; 2 lbs. 35c; 5 lbs. 75c; postpaid. Ask for prices in larger quantities.

**WHITE PEARL**—This is a northern field corn and produces large uniform well filled ears with large pure white grains. It is used extensively for roasting ears by local gardeners, and is ready for table use in about 70 days after planting. **Prices:** Pkt. 10c; lb. 20c; 2 lbs. 35c; 5 lbs. 75c; postpaid. Ask for prices in larger quantities.

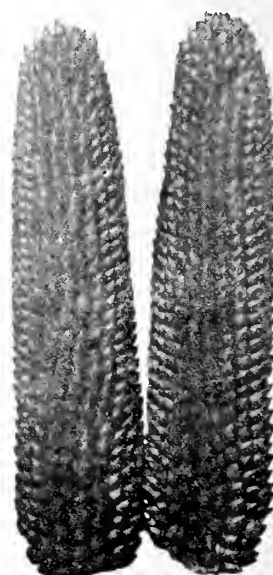
## Best Pop Corn Varieties

This is a profitable crop, yields well even in unfavorable weather and there is always a good market for it. Cultivate the same as field corn. It should be planted in March and April. One pound will plant 200 feet of drill; 12 pounds to the acre.

**WHITE RICE**—This variety has white, large pointed grains that pop nicely and is the best white variety for home popping. It is a good yielder and the ears are medium-sized. **Prices:** Pkt. 10c; lb. 30c; postpaid. Not prepaid: 10 lbs. \$1.20.

**JAPANESE HULLESS or LITTLE BUSTER**—This is a very prolific white variety and is used to a great extent by commercial poppers. It will pop out better than any other variety, but it is not so good for home popping. It is a fine variety to shell and sell to commercial poppers. **Prices:** Pkt. 10c; lb. 35c; postpaid. Not prepaid: 10 lbs. \$1.40.

**QUEEN'S GOLDEN**—This variety is very popular on account of its rich yellow color. It is the standard yellow pop corn for the South. It pops into a very large white fluffy piece and is very delicious. **Prices:** Pkt. 10c; lb. 30c; postpaid. Not prepaid: 10 lbs. \$1.20.



Pop Corn.



## Square Brand Cucumber Seed

**CULTURE**—In order to obtain the largest yield of cucumbers, the soil should be well enriched with well-rotted manure, or commercial fertilizer and the location should be fully exposed to the sun. Plant the seed not over one inch deep in hills 4 to 6 feet apart each way, dropping 15 to 20 seeds in a hill. After the plants begin to crowd, thin to three plants to the hill. Give frequent but shallow cultivation until the plants make runners. Pick the fruit as soon as it is large enough before it begins to ripen, as the vines will cease setting fruit as soon as any seed begins to mature. In gathering for pickles, cut the stem instead of pulling the fruit off and be careful not to mar the fruit in any way; if the skin is broken, the pickles will not keep so well. Use a package to 14 hills; an ounce to 75 hills; 2 to 3 pounds per acre.



Early Fortune Cucumber.

**ARLINGTON WHITE SPINE**—Although one of the older types, it is one of the most popular. A main crop variety and a little later than improved White Spine. It is very productive and the color is excellent. The fruits are 9 by 2½ inches, with square block ends and weigh about 2 pounds. Edible in 60 days. Prices: Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.10; postpaid.

**EARLY FORTUNE**—This is one of the best shipping cucumbers that is sold today. It is very early, productive and disease-resistant. The color is a rich dark green which does not fade when shipped a long distance. This is a great yielder and we recommend it to our customers as one of the finest for slicing and pickling. The fruits are about 8 inches long. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.



Davis Perfect.

**DAVIS PERFECT**—This is a long, smooth cucumber, tapering at both ends. It is one of the most popular of the White Spine varieties and the edible qualities are excellent. It is a deep green color when in the slicing stage, and medium late in maturing. A highly popular shipping variety because of its deep green color. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**EARLY CLUSTER**—This is a small variety and the fruits grow in clusters near the roots. It is very early, prolific and uniform, and is the second most popular of the early pickling strain. The skin is smooth, the end tapers slightly and it has only a moderate amount of spine. They are edible in 52 days after planting. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**KLONDIKE**—This is a White Spine variety and a little smaller than the Arlington. It is used principally for long-distance shipping. The ends taper slightly and the fruits are smooth and symmetrical. It is valuable, on account of its earliness. The fruits are 7x2½ inches, edible in 58 days. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**IMPROVED LONG GREEN**—This is a standard cucumber for either slicing or pickling. Our stock is grown expressly for us by one of the most responsible seed growers in this country. The vines are very vigorous and productive. It is a medium late variety and the best for hardness and disease resistance. The ends taper somewhat and it is slightly warted. The small pickles are well shaped and when in the slicing stage the fruits are very attractive. They measure 13x3 inches, and are edible in 62 days. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**JAPANESE CLIMBING**—This is a distinct cucumber used for its climbing qualities to cover trellises and fences. The color when ripe is a deep russet, covered with a slight netting. When in the slicing stage the deep green color is splendid. The fruits measure 9x2½ inches. Prices: Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. \$1.50; postpaid.

**CHICAGO PICKLING**—This is a very productive variety that is extensively grown for pickles. The vines are vigorous and the fruits are bright green, of medium size, very smooth and symmetrical, flesh crisp and tender. When matured they weigh 1½ pounds each and are edible in 58 days after planting. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

**SMALL GHERKIN**—For Pickles. This is a very small, oval, prickly fruited variety, and should always be pickled when young and tender. The seed is distinctly smaller than that of other cucumbers and is slow to germinate. Prices: Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00; postpaid.

**LEMON OR SALAD**—As its name indicates, it is a little similar in appearance to a lemon. It is used for pickling and in salads. It is comparatively new, but increases in use each year. Prices: Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.90; postpaid.

### Fall Gardens

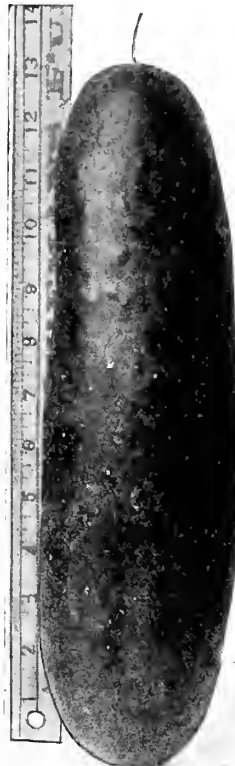
The value of the fall garden cannot be over-estimated. As a factor in reducing the grocery bill and as a necessity for obtaining that type of food needed by people at a season of the year when meat and bread comprise too large a portion of the daily ration, the fall garden is extremely important.

In the late summer, the moisture supply in the soil is limited and care must be exercised to conserve it in order to get the vegetables up. The soil for the fall garden should be plowed shallow to a depth of four or five inches. It should be harrowed immediately following the plowing, in order to bring the moisture as near the surface as possible.

Well-rotted manure may be used, but quickly available commercial fertilizers are to be preferred at this season. This is because of the relative slowness with which the plant food elements are made soluble in this season of comparative inactivity of soil bacteria.

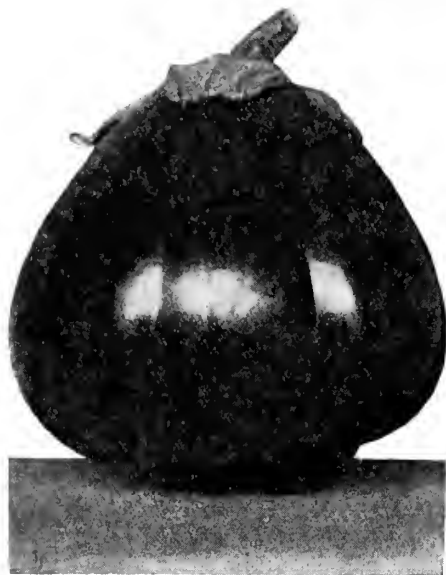
The dates for planting the vegetables in the fall garden depend upon the vegetable itself and the section of the state in which one lives. Cucumbers, peas, beans and squash seed should be planted from August 10th to 20th. Cabbage, radish, cauliflower, carrots, celery, and beets should be planted from September 1st to 15th. Turnips, kale, lettuce, mustard, parsley, spinach and onions should be planted from September 10th to 30th. Spinach may be planted all during the month of October, also.

Insects are usually more numerous in the fall than in the spring. For insects which eat the foliage of the plant it will be necessary to dust or spray the plant with some insecticide. We recommend EVERGREEN, as it is non-poisonous. For lice which suck the juice of all vegetables best results are secured by spraying with BLACK LEAF 40 or EVERGREEN. You can control the insects at a very nominal cost.



Improved Long Green Cucumber.

## Square Brand Egg Plant



Black Beauty Egg Plant.

**WHITE CURLED**—The plants are moderately dense with divided leaves which are very light yellowish-green in color, blanching readily to an attractive creamy-white. Matures in about 90 days. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

## Kale or Borecole

**CULTURE**—Plant during fall, winter or spring in rows 2 feet apart. Thin or transplant to 1½ to 2 feet apart in the row. One packet will plant 25 feet of drill; an ounce to 200 feet; 4 pounds will sow an acre.

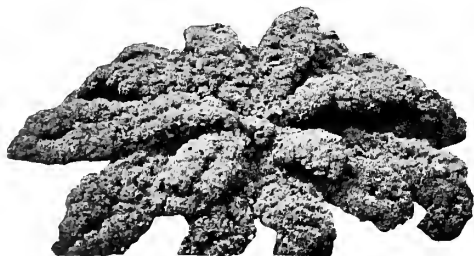
**DWARF CURLED SCOTCH**—This is a finely curled, spreading, low-growing variety; very hardy and much used for greens. It is grown extensively in the South for shipment to the northern markets, and is also largely planted for the home garden. The leaves are long and are of a bright green color. It matures in 90 days. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

**TALL CURLED SCOTCH**—The plant of this variety grows to 3 or 4 feet high bearing long plume-like light green leaves which are deeply cut, also finely curled at the edges. Matures in 95 days. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

## Kohlrabi

**CULTURE**—Sow seed in early spring and when well established thin to six inches apart in the row. Plantings may be made in July for fall use. A packet will sow about 40 feet of drill; an ounce 200 feet; 3 pounds to the acre.

**EARLIEST WHITE VIENNA**—This variety is extremely early with distinctly small tops. The bulbs are of medium size, very light green or nearly white. The bulbs are very mild and their cabbage-like flavor is most delicious. Matures in 85 days. Prices: Pkt. 10c; oz. 20c; ¼ lb. 65c; lb. \$2.00; postpaid.



Dwarf Curled Scotch Kale.

## Efficient Garden Tools

Are inexpensive. They save lots of labor and lots of bruises. They are well worth the small cost. When you send in your order for seeds order the other small supplies you need. They are listed on Pages 12 and 45.

**CULTURE**—Sow in hotbed in early spring and transplant to cold-frame when plants have two rough leaves on them. Set in open when all danger of frost or cold nights is past, and it is best to shade the young plant from the hot sun. Hoe frequently, keeping the soil loose and fine. Matures in about 120 days. A packet will produce about 150 plants; an ounce about 1,000 plants; one-fourth pound for an acre.

**BLACK BEAUTY**—This is the earliest large Eggplant. The fruits are a rich dark purple. It is disease-resistant and a very desirable sort for the market, as the fruit holds its color a long time. It is very popular with truckers in south and southwest Texas. Prices: Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$4.50; postpaid.

**FLORIDA HIGH BUSH**—This is a good variety for shipping and home garden use. The fruits are borne higher off the ground than any other variety. It is not quite as early as Black Beauty; maturing its fruits in 125 days. Prices: Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.50; postpaid.

**NEW YORK PURPLE SPINELESS**—This variety is a general favorite for the market and home garden. The fruits are large and free from thorns. It is only a few days later than Black Beauty in maturing. Prices: Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$4.50; postpaid.

## Endive for Greens and Salads

**CULTURE**—For late spring and summer use, sow the seed in open ground during February or March. For fall use sow in July or August. Requires about 60 days to mature a crop. This is a fine salad crop for your garden, and the leaves are used for garnishing and flavoring soup; the young leaves are delicious when cooked as greens. Use a packet to 25 feet of drill; an ounce to 150 feet; 4 to 5 pounds per acre.

**LARGE GREEN CURLED**—This is a hardy, vigorous-growing Endive, with bright deep green leaves. It is highly esteemed for the market and home garden, and is much used for salads. Prices: Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.



Large Green Curled Endive.

## Hi-Germinating Seed

We maintain our own modern seed testing laboratory. All of our seeds are tested BEFORE we ship them to our customers. We positively know, from these tests that no mistake has been made by our growers, in sending us seed of the germination we require. You will get **HI-GERMINATING SEEDS** when you order from us.

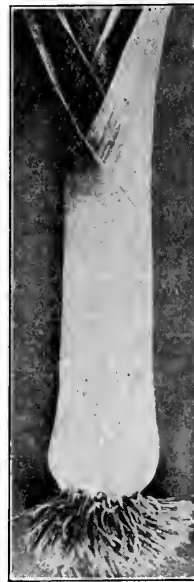


**KILL ANTS**  
with  
**EVER GREEN**  
does not harm the grass  
Non-poisonous to  
humans and pets

## Leek

**CULTURE**—Sow in rows 18 inches apart and one-half inch deep. Seed should be covered firmly. Thin plants to 6 inches apart in the row and draw the earth about them when cultivating. A packet will sow about 25 feet of drill; an ounce 100 feet; 4 pounds to the acre.

**LARGE AMERICAN FLAG**—A desirable, strong-growing, broad-leaved leek; hardy and productive. It is a favorite with many market gardeners and is also extensively used for the home garden. Prices: Pkt. 10c; oz. 25c; ¼ lb. 70c; lb. \$2.25; postpaid.



Large American Flag Leek.

## Lettuce -- the Best Salad Crop

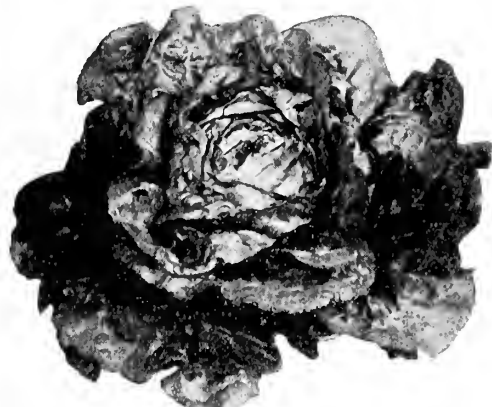
**CULTURE**—To have the best lettuce, it should be kept growing rapidly. A light, rich soil will do this. For the earliest, start the seed in a cold-frame in the fall and protect through the winter. Transplant to open ground as soon as the ground can be worked. For later use, sow the seed in the open ground when the season will permit, in rows a foot apart. Thin the plants in the rows to 4 to 6 inches, depending on the variety. A packet will sow about 25 feet of drill; an ounce 150 feet; 3 pounds to the acre.

**BIG BOSTON**—This variety is very popular for outdoor culture and is also in demand as a compact, large-heading, forcing variety for cold-frames. The leaves are bright light green, and the heads slightly tinged with reddish-brown. It heads up under cold weather conditions better than any other variety, and is grown very extensively in the South for shipment to northern markets. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**IMPROVED HANSON**—This is one of the most desirable late summer lettuces, as it stands the hot, dry weather better than most summer varieties. This thin-leaved, curly, tight-headed sort is very extensively used for the home garden as well as the market. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**ICEBURG**—This is a large crisp cabbage-heading variety, with very firm and hard heads and well blanched, usually sown in August for fall use. The leaves are medium green in color with faint brown tracing on the border. Not a good shipping variety as the leaves are too brittle. Prices: Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50; postpaid.

**EARLY PRIZE-HEAD**—This is a crisp, tender, loose-leaved, non-heading sort, and one of the most popular for home gardens. It is too tender, however, to stand shipping or handling on the market. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.



Big Boston Lettuce.

**PARIS WHITE COS**—This variety is sometimes called Celery Lettuce, as the shape somewhat resembles a celery plant. The inner leaves are nearly white, slightly tinged with green and decidedly firm and sweet. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**WONDERFUL OR NEW YORK**—This variety is also known as Los Angeles lettuce. It is much used as a fall and winter market variety. The plant is very large, strong and robust, withstanding both hot and dry weather, and is slow to run to seed. The inner leaves form a large head, and are a beautiful yellowish color. Prices: Pkt. 10c; oz. 25c; ¼ lb. 60c; lb. \$2.25; postpaid.

**SIMPSON'S BLACK-SEEDED**—This is one of the best varieties for sowing outdoors where an exceedingly tender leaf is desired. The color is an attractive light green. This curly and thin-leaved bunching variety is uniformly attractive and remains of excellent quality a very long time. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**SIMPSON'S EARLY CURLED**—This variety is very extensively used for an early loose-leaved or clustering variety. It is especially adapted for sowing thickly and cutting when the plants are young. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

Foremost among vegetables is lettuce. Its succulent leaves and heads contain rich vitamins. It is so easily grown that no home garden seems complete without a generous supply. Be sure to include lettuce in your order.



New York or Wonderful Lettuce.

## Square Brand Mangels and Sugar Beets

**CULTURE**—The Mangel and Sugar Beet, may be grown in almost any soil, but deep loams are necessary for heavy yields of the long varieties. When well grown the roots give immense yield of very valuable food for stock. Plant early in the spring in drills two to three feet apart and cover the seed about 1½ inches. Cultivate frequently. When about three inches high begin thinning and continue at intervals until the roots stand 8 inches apart in the rows. Use a packet to 25 feet of drill; an ounce to 100 feet; 6 to 8 pounds per acre.

**MAMMOTH LONG RED**—The roots are very large, uniformly straight and well formed, and comparatively thicker than the other varieties—frequently two feet long and six inches in diameter. An excellent keeper. The flesh is white tinged with rose. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**GIANT HALF SUGAR FEEDING**—This variety is desirable for stock feed, affording not only a very large crop much easier to harvest than other sorts but having higher nutritive value, being especially rich in sugar. The roots are light bronze above the ground and grayish-white below, with white flesh and average 10 to 12 inches. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**GOLDEN-TANKARD**—The tops are comparatively small, with the leaves, stalks and stems distinctly tinged with yellow. The roots are large but with the bottom usually of larger diameter than the top, which makes it harder to harvest than the other varieties. The flesh is yellow-gold with white. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

Whitesboro, Texas.

Sherman-Magnolia Seed Co.,  
Dallas, Texas.

Dear Sirs: You will find a list below for several pounds of seed. Please send them out at once.

I have been buying my seeds for several years from the Sherman-Magnolia house at Sherman, Texas, and find them all they are said to be.

2 lbs. Chalk's Early Jewel Tomato, 1 lb. Dwarf Champion Tomato, 2 lbs. McGee Tomato, 2 lbs. Sparks' Earliana Tomato, 1 lb. Ruby King Pepper, ½ lb. Long Red Cayenne Pepper.

Please send at once, as I will order more seeds on arrival.

Yours truly,

E. J. MARTIN.



Giant Half Sugar Feeding Mangel.

Southern Giant  
Curled Mustard.



## Square Brand Okra

**CULTURE**—The young pods are used in soups, stews, catsups, etc. After danger of frost is past, sow in rows about 2½ feet apart, covering with about an inch of fine soil firmly pressed down. When about three inches high, thin to about one foot apart in the row. Cultivate and keep free from weeds. The pods are in best condition for use when from one to three inches long. Use a packet to about 25 feet of drill; an ounce to 100 feet; 8 pounds per acre.

**DWARF GREEN**—This is an extra early maturing prolific variety. It is very productive and the plants are more dwarf in habit of growth than those of other sorts. The pods are short, deep green, slightly corrugated, tender and of good quality. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.

**WHITE VELVET**—This is a standard variety planted throughout the South for home use and local shipment. The pods are almost altogether free from ridges. The plants are about 3½ feet high and very productive. This variety is ready for use in 47 days after planting. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.

**DWARF LONG POD GREEN**—This is a sturdy dwarf-growing variety and is quite early and productive. The pods are long and corrugated and are an attractive dark green in color. This variety is a very good one for the home garden, and is of the type most used for canning. It is ready for use in 45 days after planting. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.



Dwarf Long  
Pod Green  
Okra

## Mustard for "Greens"

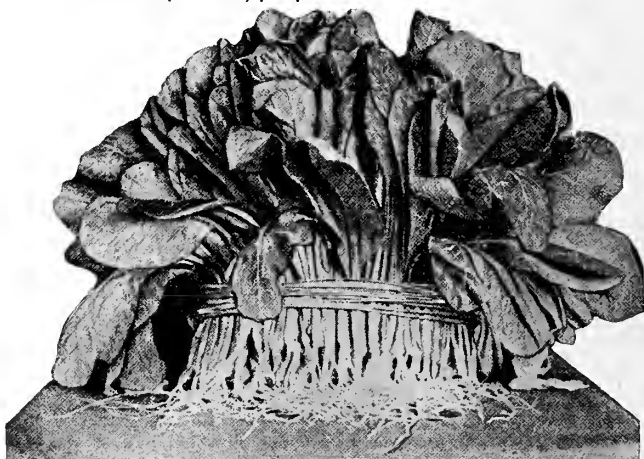
**CULTURE**—Mustard is only used as a condiment, but the green leaves are used as a salad, or cut and boiled like spinach. Sow as early in the spring as the ground will permit in drills about 18 inches apart, covering one-half inch deep. The seed may also be sown in autumn, and the plant used early in the spring as a salad and for greens. A packet will sow about 25 feet of drill; an ounce 100 feet; 2 to 3 pounds will plant an acre.

**SOUTHERN GIANT CURLED**—The leaves are large, light green with a tinge of yellow, much crimped and frilled at the edges. The plant is upright or slightly spreading in growth. This variety is highly esteemed in the South for the market as well as the home garden, on account of its vigorous growth, hardness and good quality. It is planted extensively by truck growers and shipped to northern markets. It is ready for use in 35 days after planting. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 65c; postpaid.

**CHINESE BROAD-LEAVED**—This is a European variety with light green leaves. It is a very vigorous sort, much crumpled and of a sweetly pungent flavor. It will stand much longer than the other varieties before going to seed. This variety is ready for use 35 days after planting. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 65c; postpaid.

**LARGE SMOOTH-LEAF**—This is an excellent variety with very large light green plain, or comparatively smooth leaves, grown well above the ground. The plant is of very quick growth, fairly upright when young, becoming somewhat spreading at maturity. This variety is preferred by many as it is more easily prepared for the table than the rougher-leaved varieties. It is ready for use in about 37 days. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c; postpaid.

**TENDERGREEN**—This is known as Japanese Mustard Spinach. A tender delicious quick growing green. It is practically an all-season plant, and is ready for market 30 days from planting. It will stand extreme summer heat, also resistant to cold weather. The leaves are cooked and prepared for the table the same as Spinach, Turnip or Mustard green. Be sure to plant this delicious and tender vegetable this fall. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid.



Tendergreen

## Garden Tools

Efficient garden tools are always a pleasure and for the small garden there is no more satisfactory tool than the

### Planet Jr. No. 4

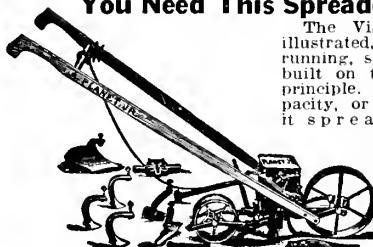
**Combined Hill and Drill Seeder and Single Wheel Hoe.** Plants almost all vegetables in continuous rows or in hills 4, 6, 8, 12 or 24 inches apart. A plow adjustable for depth, opens a straight, narrow furrow, the seeds are dropped in it, are covered and the soil firmed, and the next row marked out, all in one operation. Converted into a single wheel hoe by changing one bolt. Shipping weight, 37 lbs. Price, F. O. B. Dallas, each, .....\$14.25

### You Need This Spreader Too!

The Vigoro Spreader, illustrated, is an easy-running, sturdy machine, built on the forced-feed principle. Loaded to capacity, or nearly empty, it spreads uniformly, equipped with handle control shut-off and a definite rate adjustment dial.

F.O.B. Dallas

**BABY SPREADER**—  
10 lb. capacity.....\$ 2.25  
**JUNIOR SPREADER**—  
20 lb. capacity..... 7.75  
**STANDARD SPREADER**—  
65 lb. capacity..... 12.25



Planet Jr. No. 4



Vigoro Spreader



## Square Brand Cantaloupe or Muskmelon

**CULTURE**—After danger of frost is past, plant in rich soil, preferably sandy loam in hills of from 4 to 6 feet apart. Put 10 to 12 seeds in a hill, cover with about one inch of fine soil, firmly pressed down. When the plants begin to crowd, and the striped beetles are pretty well gone, thin to four of the most vigorous plants in the hill. Give frequent but shallow cultivation until the plants make runners. Rich earth for the young plants is far better than manure, but if the latter must be used, see that it is well rotted and thoroughly mixed with the soil. Use a packet to 16 hills; one ounce to 50 hills; 2 to 3 pounds to acre.

### Green Fleshed Varieties

**GOLD LINED ROCKY FORD**—This is a type selected from the green flesh Rocky Ford and has a gold lining next to the seed cavity making it unusually attractive when cut. It is medium late in maturing. The flesh is very thick, sweet and spicy. The shape is round with a complete covering of netting and no ribs. It is edible in 92 days and weighs 2½ pounds. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid. Ask for prices in larger quantities.

**EARLY HACKENSACK**—This early green flesh melon is popular in many sections as a market melon and is also extensively used as a home garden variety. The fruits are medium to large in size, nearly round or somewhat flattened. The skin is green, slightly tinted with yellow as the fruits mature. The flesh is of green and medium fine texture but of good flavor. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

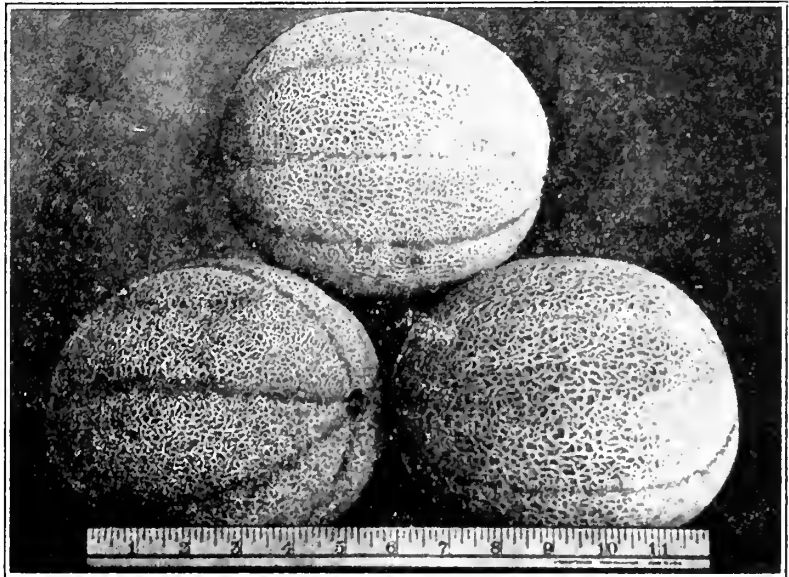
**NETTED ROCK**—This is a heavily netted type of the Rocky Ford with an almost absence of ribs. The flesh is green, sweet and spicy and has not been excelled by any other melon. This variety is edible in 96 days and weighs 2½ pounds. The size is 5½ x 5 inches. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

**TEXAS CANNON BALL**—This is a perfectly round green-fleshed melon, heavily netted. It is early and its most remarkable feature is its thickness of the flesh. The melons weigh 3½ pounds each. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid. Ask for prices in larger quantities.

### Salmon Fleshed Varieties

**HALE'S BEST**—Salmon flesh of exceptional thickness. The shape is oval, with heavy netting and fairly prominent ribs. A remarkable, very early melon from the Imperial Valley in California. We have had ripe melons in 68 days in a season remarkable for its coldness. Prices: Pkt. 10c; oz. 20c; ¼ lb. 35c; lb. \$1.00; postpaid. Ask for prices in larger quantities.

**HONEY DEW**—The shape of the Honey Dew is perfectly round, the skin smooth and a light cream in color. It matures quite late and does not grow to perfection except in the South. It enjoys a wide use as a shipping variety and if properly stored it will remain edible for months. Prices: Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.60; postpaid. Ask for prices in larger quantities.



Hale's Best Cantaloupe.

**POLLOCK 10-25**—This is a selection out of the Rocky Ford type and the flesh is salmon tinted instead of green. The fruits are uniform and heavily netted with no trace of ribs and the vines are rust resistant. It is planted by melon shippers in Texas, Colorado and California. We have an exceptionally fine strain of this variety. Prices: Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. \$1.10; postpaid. Ask for prices in larger quantities.

**HONEY BALL**—This is a cross between the Texas Cannon Ball and Honey Dew melon. It is the best drought-resisting melon that has ever been grown in Texas. It is a little larger in size than the Rocky Ford, is round and has a very thick wall of delicious green meat which can be eaten to the rind. The rind is hard and rough which makes it a splendid shipper. This variety is very prolific, some vines having as many as 25 melons to the plant. After the melons have been pulled it is best to keep them a few days before eating. This variety is edible in 100 days and weighs 3½ pounds each. The size is 6½ x 6½ inches. Prices: Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.60; postpaid. Ask for prices in larger quantities.

**EDWARDS' PERFECTO**—This is a new cantaloupe that has only been introduced a short time. The seed cavity is triangular and the flesh a deeply tinted salmon color. It is edible in about 96 days and the shipping and keeping qualities are excellent. We believe Perfecto will supersede many of the old shipping varieties. Try some of this seed, you will be pleased. Prices: Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00; postpaid. Ask for prices in larger quantities.

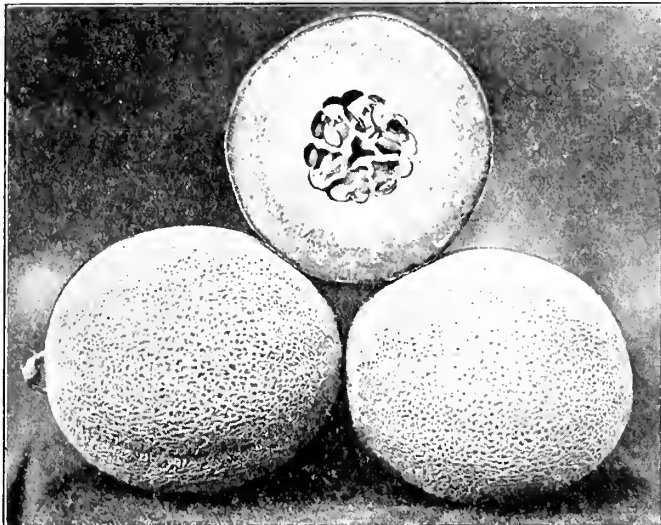
**BANANA**—This is an extremely long melon tapering at both ends. The skin is lemon colored when mature and the flesh is pink and is very delicious. It is very vigorous and hardy, although rather late in maturing. The fruits measure 14 x 4 inches and weigh 7 pounds each. Prices: Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00; postpaid. Ask for prices in larger quantities.

### What A Pleasure!

Who doesn't enjoy going into his garden and bringing back a ripe, sweet cantaloupe, fresh from the vines—whether it be for breakfast or dessert?

### Square Brand Cantaloupe Seeds

come from the foremost breeders of cantaloupe seed, and the varieties we offer are the most desirable for home gardens. Every home owner can grow a sufficient amount of this luscious garden prize for his own table.



Gold Lined Rocky Ford.

## ACME SPRAYING GUIDE

Contains of  
Acme White Lead and Color Works WHEN AND WHAT TO SPRAY

Write for this Fine Guide Free

Free

Name \_\_\_\_\_

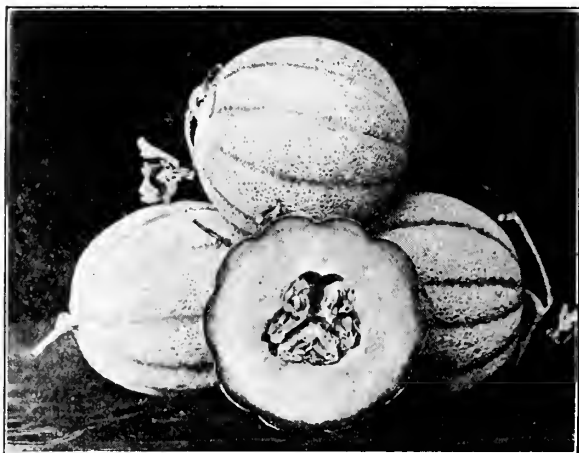
Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

I am interested in \_\_\_\_\_

Please send me \_\_\_\_\_

## Square Brand Cantaloupe or Muskmelon (Continued)



Hearts of Gold.

**HEARTS OF GOLD**—This is a selection from Hoo Doo, the melons run very uniform in size. It is a splendid shipping variety and is steadily increasing in use. The seed cavity is remarkably small and the melon carries as well if not better than the Pollock types. **Prices:** Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid. Ask for prices in larger quantities.

### National Eezy Wear Garden Gloves

**ALL-LEATHER—SOFT AS KID  
AND EASY TO WEAR**

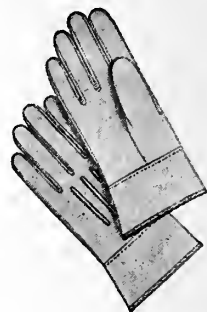
Made from special imported hides, processed to render them amazingly soft and pliable. Permit almost bare-hand freedom, yet provide complete all-year protection. Ideal for garden and similar use.

**DIRT-PROOF—DURABLE  
WASHABLE**

Four sizes: "Small" and "Medium" for women, and "Medium" and "Large" for men.

**Price, Delivered to You—**

Per Pair .....75c  
2 Pairs .....\$1.40



## Square Brand Southern Grown Watermelons

**CULTURE**—The seed should be planted in hills about 8 feet apart and it is well to work into the soil an abundance of well-rotted manure. It is important that the seed should not be planted before the ground becomes warm and dry, as the young plants are very sensitive to cold and wet. Put 10 to 12 seeds in a hill. When the plants have formed the first pair of rough leaves, they should be thinned so as to leave two or three of the strongest and best to each hill. Frequent watering of the plants, with liquid manure, will hasten the growth, thus diminishing the danger from insect pests. Cultivate until vines cover the ground. A packet will plant about 10 hills; an ounce 30 hills; 3 to 4 pounds per acre in hills.

**SQUARE BRAND SPECIAL TOM WATSON**—Our seed is grown for us in Parker County, from selected stock seed, and will produce the very best melons that can be grown. Our grower is spending the largest portion of his time in breeding and improving this melon, and the seed we are offering you is the very best that can be bought. We sell large amounts of this seed to the truck growers in Texas, as it is necessary for them to produce the largest and very best melons in order to be able to market them. We have seen melons grown from this seed that would weigh over 90 pounds, and they were entirely free of white hearts or stringiness and were as sweet and luscious as any melon we have ever tasted. We are making a specialty of this variety. If you are growing melons for the market, you should plant this seed, as it will produce fruits that will sell at sight and bring the highest possible prices. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.60; postpaid.

**ALABAMA SWEET**—The melons are long, with a deep green rind irregularly striped with a darker shade of green. It is an excellent shipping variety with a very tough, elastic rind. The flesh is dark red in color, fine-grained, luscious, entirely free of stringiness. The melons average about 30 pounds in weight, and are edible in 90 days. It is a favorite shipping variety and is also desirable for home and market use. **Prices:** Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

**GEORGIA RATTLESNAKE**—This is one of the largest and best known shipping and home garden varieties. The fruits are very long, and of a light green color, distinctly striped and blotched in with a darker shade. The flesh is bright scarlet, tender and sweet. It has a thin but tough rind, and is edible in 95 days. **Prices:** Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

**HALBERT HONEY**—This is as fine a medium early home market melon as we know, and enjoys wide use, and is second only to Kleckley Sweet in popularity for home gardens and nearby markets. The seed are white with black tips, the shape is long and cylindrical, and the rind is a deep green with fine grains. The melons average 35 pounds in weight and are edible in 87 days. The flesh is a delicious crimson-red, and extends nearly to the rind; the rind being very thin and brittle. The flesh is entirely free of any stringiness, and is very sweet. **Prices:** Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

### Stem End Treatment for Watermelons

By Horticulturist, Extension Service, A. and M. College of Texas

The stem end rot of the watermelon is a disease that appears in transit. The melon may be apparently in perfect condition at the time that it is loaded and yet be a total loss when it reaches the market. This disease can be prevented by the application of the following formula that has been worked out by the United States Department of Agriculture:

Bluestone (Copper sulphate) 4 ounces; rye flour 4½ ounces; distilled water 3 pints; Pistachio green coloring ½ fluid ounce; powdered alum 3 ounces. This amount of material will make about one quart of paste, a sufficient amount to treat one carload of watermelons.

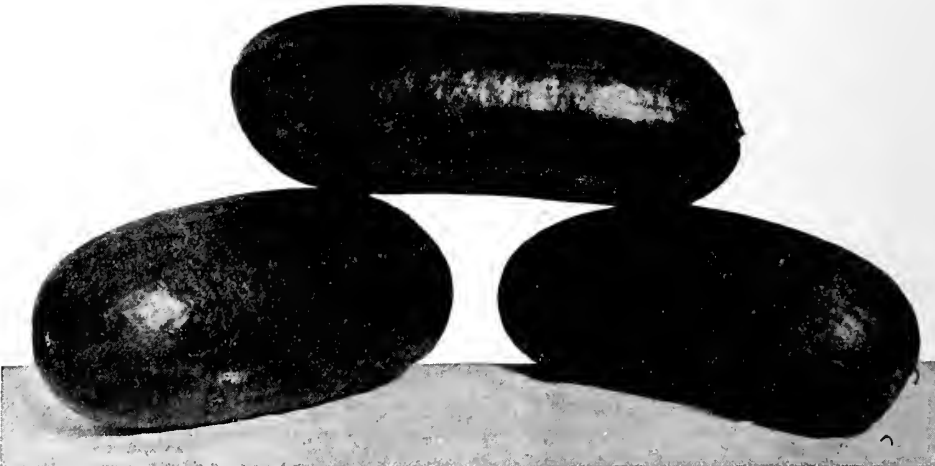
#### Directions for Preparing Paste

Use copper or enamel vessels.  
(1) Dissolve four ounces bluestone in two pints boiling water.

(2) Dissolve three ounces powdered alum in one pint water and then add four and one-half ounces rye flour and mix to form a smooth paste. When the bluestone is thoroughly dissolved, pour the solution in the paste, stirring the mixture thoroughly. Bring this mixture to a boiling point and cook for about five minutes. (When the paste is made in large quantities it may be necessary to change the time for cooking.)

(3) After the paste is allowed to cool it may then be strained through a cheese cloth, after which the coloring matter should be added.

(4) The paste should be stored in air-tight containers. Glass jars or tin cans lined with paraffin may be used for this purpose. Uncoated metal containers must not be used.



Square Brand Special Tom Watson Watermelon.

## Square Brand Southern Grown Watermelons (Continued)

**GOLDEN HONEY**—This is the best of the yellow-fleshed melons. This melon is oblong in shape, and the rind is a dark green with irregular stripes of a darker green. The average weight of the melons is 25 pounds, and they are edible in 90 days. This is a standard variety, and the flesh is a speckled golden color, very attractive, and fully as delicious as its appearance indicates. Prices: Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.25; postpaid.

**IRISH GREY**—This is a long melon, rather large in size, and becoming more popular as a shipping variety. The rind is a light green color, and the flesh a sparkling red, very sweet, and entirely free from stringiness. The rind is very tough. It will not sunburn, and stands long-distance shipping well. The vines are vigorous, healthy, and hold up and produce fine melons late in the summer where other sorts die out. The average weight is 35 pounds. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

**KLECKLEY'S SWEET**—Sometimes called Monte Carlo. The vines are vigorous and productive. The fruits are medium to large, oblong, tapering slightly towards the stem end. The flesh is a very bright rich red and is exceedingly sweet. The variety is so crisp and tender that it will not stand shipping well. The skin is a dark green, and is medium early in maturity, but is edible in 87 days. This variety is more widely used for the home garden and nearby market than any other sort. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

**WONDER MELON**—This melon has the most delicious flavor of any melon that is grown. The rich red flesh is full of flavor up to the rind and does not show hollow. The rind is thin but tough, insuring safe shipment for reasonable distances. It is large and long, resembling the Tom Watson, though it is thicker, and the color is a dark solid green that makes it very attractive in the markets. It is edible in 88 days after planting. Prices: Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**TOM WATSON**—This is the most popular of the shipping melons. The rind is a deep green, indistinctly veined and is very tough and elastic. The shape is long and cylindrical, and one of its especially attractive characteristics is the high permanent gloss which makes the fruit look as though it had just left the vine. The flesh is sweet, very firm, and crimson color. This variety is edible in 92 days and is very popular for home and market use. Prices: Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.



Stone Mountain.

**STONE MOUNTAIN**—This melon is extra large and heavy, and almost round. The rind is dark green and medium tough. The flesh is a rich scarlet, extra sweet, and free from stringiness. For home and nearby market use this variety stands up under most trying conditions, making fine crops of late melons that sell over any other melon. This variety is edible in 92 days. Prices: Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50; postpaid.

### Gator-Hide

Mulch



Paper

#### Insures

**BIGGER CROPS—BETTER CROPS—EARLIER CROPS NO WEEDING**

Gator-Hide Mulch Paper stimulates plant growth by increasing the temperature of the soil, by conserving moisture in the soil and by eliminating the weeds that usually steal plant foods, no matter how often the grower goes through the back-breaking process of weeding.

Use Gator-Hide Mulch Paper on such crops as watermelons, cantaloupes, tomatoes — anywhere the crop is of sufficient value to justify small increased expense to increase production and produce better fruit.



Kleckley Sweet.

#### TYPE A—LIGHT WEIGHT

Width	Length	F.O.B. Dallas
18-inch	900 ft.	Per Roll \$3.00
36-inch	900 ft.	6.00

#### TYPE B—HEAVY WEIGHT

Width	Length	F.O.B. Dallas
18-inch	450 ft.	Per Roll \$3.00
36-inch	450 ft.	6.00

**GARDEN PACKAGE**—Containing 45 feet 18-inch Type B paper..... 65c

### Increase Your Profits

by using modern methods in producing better crops with less labor. You can have earlier crops, to sell at higher prices by using

### Hotkaps

Hotkaps make many extra dollars for the market gardener. They are wax-paper cones, individual hothouses for each plant. They completely cover the plants and fully protect them from frost, wind, rain, ground crusting, and insects. This is your assurance to earlier, bigger crops and higher early-to-market prices. They are relatively inexpensive and are quite easy to use. One man can fit over 3,000 Hotkaps per day. Order your season's supply early.

Hotkaps are packed 1,000 to the roll; shipping weight, 28 pounds.

#### F. O. B. Dallas Prices

1,000	.....	\$11.00
5,000 lots. Per 1,000	.....	10.75
10,000 lots. Per 1,000	.....	10.50
<b>STEEL HOTKAP SETTER, Each</b>	.....	2.50
Shipping weight, 4 pounds.		
<b>HOME PACKAGE</b> —100 Hotkaps and papier mache setter and steel tamper. Weight	.....	2.50
4½ lbs.	.....	
<b>TRIAL PACKAGE</b> —250 Hotkaps, garden type, water-proof setter and steel tamper.	.....	4.00
Shipping weight, 9 pounds.		



Without Hotkap.

With Hotkaps.

## EVERGREEN

KILLS ANTS AND GARDEN INSECTS

## Square Brand Onion Seed

We offer only true Teneriffe grown Bermuda Onion Seed, grown for us under contract, by the most reliable grower in the Canary Islands.

TREAT BEFORE PLANTING WITH  
**SEMESAN**  
FOR DISEASE PROTECTION

**CULTURE**—As early in spring as ground can be worked sow in rich soil, thoroughly pulverized, and level in rows 13 to 15 inches apart, covering one-half inch deep. When the plants are well up, cultivate and keep free from weeds. When large enough, thin to three inches apart. If sets are wanted, sow seed thickly and don't thin out, using from 30 to 50 pounds of seed per acre. A packet will sow about 50 feet of drill; an ounce 150 feet; 3 to 4 pounds per acre.

**YELLOW BERMUDA**—This variety is sometimes called White Bermuda. It is of a light straw color, and is very popular. The bulbs are somewhat flattened, of medium size, and very sweet. This variety will keep better and longer than the Crystal White Wax, and for that reason, it is planted where keeping qualities are desirable. **Prices:** Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50; postpaid.

**CRYSTAL WHITE WAX**—The most popular of the Bermuda onions. It is a clear waxy white onion, and has the delightful mild flavor of the Yellow Bermuda. It is of a somewhat flat shape; the onions sometimes grow to the size of saucers. It does not keep as well as the Yellow Bermuda; however, it is very popular. **Prices:** Pkt. 10c; oz. 30c; ¼ lb. 80c; lb. \$2.75; postpaid.

**AUSTRALIAN BROWN**—For a late maturing, long keeping onion to last into and through winter if stored in a dry place, Australian Brown has no equal. About a month later in maturing than the earlier sorts, but has a neat round shape, very firm and solid in texture, and the longest keeping onion known for warm climates. Has a pungent flavor, and the skin is an amber-brown color. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.75; postpaid.

**RED WETHERSFIELD**—This variety is of large size, very productive, and an excellent keeper. The color is deep purplish-red, and the flesh is white, moderately grained, and very mild. You can pull green onions in 63 days, and matures in 150 days. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.75; postpaid.

**GIANT YELLOW PRIZE-TAKER**—This variety has been successfully grown in all parts of Texas and the Central South. The skin is a light straw color, and the flesh is a pure white, very fine grained, and can be pulled sixty days after planting the seed; matures in 145 days. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.75; postpaid.



Bermuda Onions.

**SOUTHPORT WHITE GLOBE**—This is a most desirable medium early, or main crop variety. The flesh is firm, fine-grained, quite mild in flavor, and is very attractive. The bulbs are globe-shaped, keep well, and are desirable for shipping. **Prices:** Pkt. 10c; oz. 25c; ¼ lb. 70c; lb. \$2.25; postpaid.

**MAMMOTH SILVER SKIN**—This is a medium sized onion of mild flavor, and with a beautiful clear white skin. This variety is a favorite with many for use when young as a salad or bunching onion, and for pickles. The bulbs are nearly round when of bunching size, and somewhat flattened when mature. **Prices:** Pkt. 10c; oz. 25c; ¼ lb. 70c; lb. \$2.25; postpaid.



Onion Sets.

**GIANT SWEET SPANISH VALENCIA**—We recommend this new variety of onion very highly. It is a globe-shaped onion of bright yellow color, and mild in flavor, and grows a little larger than the Prizetaker. It is a good yielder and a splendid keeper. This is a fine variety for home or market use. Green onions can be pulled 65 days after planting the seed, and it matures in 145 days. **Prices:** Pkt. 10c; oz. 30c; ¼ lb. 90c; lb. \$3.00; postpaid.

**WHITE PEARL**—This is a very early, very white-skinned variety, of special value for pickling. When allowed to reach full size, the bulbs are quite flattened, but as grown for pickles are nearly round. **Prices:** Pkt. 10c; oz. 25c; ¼ lb. 70c; lb. \$2.25; postpaid.

**GIANT YELLOW DENIA**—This is an improved yellow Prizetaker. It is very large, light yellow in color, globe-shaped, small top, and a wonderful flavor. The flesh is pure white and very fine-grained. **Prices:** Pkt. 10c; oz. 25c; ¼ lb. 65c; lb. \$2.00; postpaid.

**YELLOW GLOBE DANVERS**—This is a very productive and extensively used variety for home use and market. The bulbs are of medium to large size, uniformly globe-shaped, with a small neck, and ripen very evenly. The skin is a rich coppery-yellow. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.75; postpaid.

## Onion Sets

**RED**—Very hardy and good keepers. One of the best red onions for all purposes. **Prices:** Lb. 35c; 3 lbs. 90c; postpaid. Ask for prices in larger quantities.

**YELLOW**—Produce medium-sized, globe-shaped yellow onions. A good yellow variety. **Prices:** Lb. 35c; 3 lbs. 90c; postpaid. Ask for prices in larger quantities.

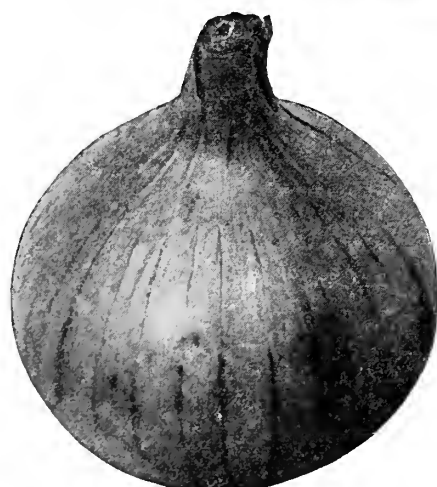
**WHITE**—These sets produce large silvery-white onions, of the finest quality when matured. **Prices:** Lb. 35c; 3 lbs. 90c; postpaid. Ask for prices in larger quantities.

## Onion Plants

Those who desire an early crop, either for table use or for market, should set out onion plants, as you will be able to get your onions on the market ahead of those who plant seed. Our plants are grown in South Texas from seed imported from the Canary Islands. Be sure to order from us, and you will receive plants grown from our imported seed. Plants are sometimes lost in the mails, and if you buy your plants from us, we guarantee safe arrival and satisfaction, or your order will be refilled, or your money refunded.

**YELLOW BERMUDA**—You will find this variety described under our onion seed section. **Prices:** 25c per 100; \$1.00 per 500; \$1.75 per 1,000; postpaid. Ask for prices in larger quantities.

**CRYSTAL WHITE WAX BERMUDA**—This is the most attractive onion that is grown today. You will also find it described in our onion seed section. **Prices:** 25c per 100; \$1.00 per 500; \$1.75 per 1,000; postpaid. Ask for prices in larger quantities.



Prizetaker Onion.



## Square Brand Garden or English Peas

**CULTURE**—For early peas the soil should be light and warm, but for general crop, a moderately heavy soil is better. Fresh manure and very rich or wet, mucky soil should be avoided, as they cause a large growth of vine at the cost of the quality of the peas. The seed should be planted in rows at a depth of 1½ to 2 inches. Rows should be 21 to 28 inches apart for dwarf varieties and 28 to 42 inches for the taller sorts. The wrinkled varieties are more sensitive to wet weather than the smooth-seeded sorts, but are of superior quality. The crop should be gathered as fast as it is fit for use. If even a few pods begin to ripen, not only will new pods cease to form, but those partly advanced will stop growing. A packet will sow 20 feet of drill; a pound, 100 feet; 90 to 120 pounds per acre.

### First Early Varieties

**FIRST AND BEST**—This is the earliest pea that is grown. It is a smooth sort, with wonderful ability to mature quickly. It is unsurpassed in extra early qualities, in flavor, and in size of pod. It is free from runners, and the entire crop can be taken off at two pickings. The vines are about 2½ feet high, and matures in 48 days after planting. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**ALASKA**—This is a smooth blue pea of unequalled evenness in growing of vine, and early maturing of pods, which are filled with medium sized bright green peas of good flavor. The vines are of medium height, from 2 to 3 feet, and of distinctive light color. The pods are of good size, about 2½ inches long. This variety matures all of its crop at one time, and is a valuable variety for market gardeners and canners. Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

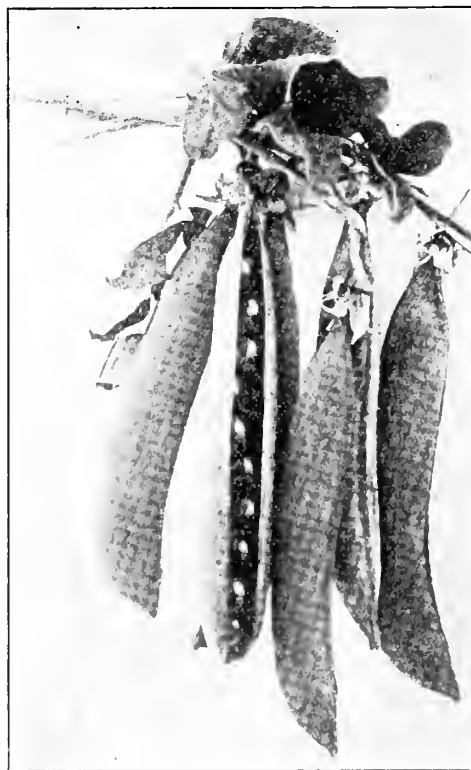
**HUNDREDFOLD**—This is without doubt the very best dwarf pea. It is ready about three days after the earliest sorts and bears an enormous crop of intensely dark green pods four inches long, fairly broad and pointed, containing eight large green peas of tender quality and fine flavor. The vines grow to a height of about sixteen inches and are easily handled, resists heat well. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**LITTLE MARVEL**—This is an excellent dwarf sort for the market and home garden. The pods average a little longer than those of Premium Gem, are more attractive in shape and color, and the peas are of superior quality. The pods contain 7 very dark green peas of high quality. This variety is ready for table use in 55 days after planting. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**PREMIUM GEM**—This is a desirable early green wrinkled dwarf variety. The vines are very productive, 15 to 18 inches high. The pods are of medium size, about 2¼ inches long, and crowded with 6 and 8 large peas of fine quality. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**LAXTONIAN**—This handsome wrinkled pea is the largest podded of the dwarf varieties. The vines are vigorous and productive, averaging 16 inches high with dark green foliage. The pods are about four inches long, and contain from 6 to 8 large dark green peas. This is a popular variety for home or market use. Prices: Pkt. 10c; ½ lb. 25c; lb. 45c; 2 lbs. 80c; postpaid. Ask for prices in larger quantities.

**NOTT'S EXCELSIOR**—The best very early dwarf pea. The vines are large and productive and earlier than Premium Gem and average about 12 inches high. The



First and Best.

peas are medium-sized, about 2¾ inches long. The peas, in sweetness and quality, are unsurpassed. A most desirable early sort for the market gardener, and unsurpassed for the home garden. Edible in 50 days after planting. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**THOMAS LAXTON**—This is a very early wrinkled variety of great merit. The vines are vigorous, of medium height, about 3 feet. The pods are large, often 4 inches long, with square ends, and uniformly well filled, containing 7 medium dark green peas of superior quality. The green peas are very large, and of fine deep color. This is one of the very best sorts for the market and home garden. Edible in 57 days after planting. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

### Second Early and Main Crop Varieties

**BLISS EVERBEARING**—The vines are stout, of medium height, about 2½ feet, bearing at the top 6 to 10 good-sized pods, about 3 inches long. If these are picked after they mature, and the season and soil are favorable, the plant will throw out branches bearing pods which will mature in succession, thus prolonging the season. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**CHAMPION OF ENGLAND**—A standard very productive main crop variety. The vines are tall, about 4 to 5 feet high. The pods are nearly round, and blunt-ended, containing 8 light green peas. Edible in 74 days after planting. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**DWARF TELEPHONE**—This is a healthy stocky grower, and very productive. It does not require staking. The green pods frequently measure 5 inches in length, containing 9 to 10 peas. Edible in 66 days after planting. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

### Tall Growing Varieties

**BLACK EYE MARROWFAT**—A well known tall late maturing variety, about 5 feet high. The pods are 3½ inches long, nearly round, and blunt-ended, containing 7 light green peas. It is one of the best of the Marrowfat sorts and is ready for use in 74 days after planting. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**WHITE MARROWFAT**—The vines of this tall variety are about 5 feet high, and of strong growth. The pods are large, about 3 inches long, cylindrical, surface somewhat roughened, light colored, and well filled. It is most desirable for summer use, but is not as sweet and tender as most varieties. It is edible in 67 days after planting. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**IMPROVED TELEPHONE**—This has become the leading pea with market gardeners. The vines are tall and vigorous, growing about 4 feet high, with large, coarse, light colored leaves, and producing an abundance of pointed pods of large size. They are 4 to 5 inches long, and a bright green attractive color, filled with 8 large peas which are tender, sweet, and of excellent flavor. Prices: Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 65c; postpaid. Ask for prices in larger quantities.

**MAMMOTH MELTING SUGAR**—This is a tall, late prolific variety that produces large broad pods so tender and sweet that the whole pod can be cooked and served like snap beans. The pods are best when they are about half-grown. They are very large, four to five inches in length, very broad and fleshy; quite brittle, stringless and fine flavored. The vines grow four to five feet high. Prices: Pkt. 10c; ½ lb. 25c; lb. 40c; 2 lbs. 75c; postpaid. Ask for prices in larger quantities.



Little Marvel.

## Square Brand Pepper Seed

**CULTURE**—Sow seed early in hotbed, and when three inches high transplant in rows about 2½ feet apart and 2 feet apart in the row. Cultivate and keep free from weeds. A packet will produce about 100 plants; an ounce about 1000 plants; one-half pound will sow an acre.

### Sweet Varieties

**CALIFORNIA WONDER**—We regard this as the most valuable addition to the pepper list. The fruits are a dark green, smooth in surface, square in cross-section, and very large, usually about 4 inches across, and 4 to 5 inches deep. The flesh is usually one-fourth inch thick, the thickest flesh of any pepper in cultivation. It is a very desirable sort for the home garden and an exceptionally profitable one for commercial growers, especially those who ship to distant markets. It matures in 118 days, but produces green peppers nearly as early as the earliest varieties. **Prices:** Pkt. 10c; oz. 50c; ¼ lb. \$1.75; lb. \$6.00; **postpaid.**

**BELL, or BULL NOSE**—The plants are not as tall-growing as the later varieties, but are vigorous, sturdy, and surprisingly productive, ripening their crop uniformly and early. The fruits are a medium size square shape, and when immature they are deep green in color, turning to a bright scarlet-red when ripe. **Prices:** Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50; **postpaid.**

**CHINESE GIANT**—The plants of this variety are vigorous and upright, about 2½ to 3 feet high. The fruits are a rich deep green when immature, and bright scarlet-red when ripe. The plants are very vigorous and productive, and this is a desirable sort for the home garden or commercial growers. The flesh is thick, mild and sweet, and is exceptionally desirable for use in salads; also one of the best varieties for stuffing. This variety matures in 118 days after planting. **Prices:** Pkt. 10c; oz. 50c; ¼ lb. \$1.50; lb. \$5.00; **postpaid.**

**WORLD BEATER**—This is one of the largest varieties of sweet pepper. It is a cross between Ruby King and Chinese Giant, having the good qualities of both. When ripe it is bright scarlet, and the flesh is very thick, mild, and of a very fine flavor. This variety is desirable for home or market use. It matures in 115 days. **Prices:** Pkt. 10c; oz. 35c; ¼ lb. \$1.15; lb. \$3.50; **postpaid.**

**RUBY KING**—This is an improved American variety, very large and attractive. The plants are about 2½ feet high, vigorous, and compact. The fruits are 4½ inches long, of deep green color when young, and bright red when ripe. The flesh is thick and mild flavored, and it is one of the popular varieties to be used for stuffed peppers. This variety matures in 118 days. **Prices:** Pkt. 10c; oz. 35c; ¼ lb. \$1.15; lb. \$3.50; **postpaid.**

**PIMENTO**—The fruits of this very productive sort are exceptionally smooth and close, of good size, medium length, and attractive color. The flesh is very thick, solid, mild, and of very fine flavor. **Prices:** Pkt. 10c; oz. 30c; ¼ lb. 90c; lb. \$3.00; **postpaid.**



California Wonder Pepper.

**RUBY GIANT**—If you want an especially large, mild pepper, this is one of the best varieties you can plant. It is very attractive, grows to large size, is exceptionally mild, and when ripe is of a bright scarlet color. It is excellent for stuffing and is a desirable sort for home or market gardens. **Prices:** Pkt. 10c; oz. 35c; ¼ lb. \$1.15; lb. \$3.50; **postpaid.**

### Hot or Pungent Varieties

**LONG RED CAYENNE**—This is a well-known, medium early variety, having a slender, twisted and pointed pod, about 4 inches long. The color is deep green when the fruit is young, and bright red when ripe. The flesh is extremely strong and hot. This variety matures in 112 days. **Prices:** Pkt. 10c; oz. 35c; ¼ lb. \$1.15; lb. \$3.50; **postpaid.**

**RED CHILI**—This is a late variety. The pods are bright rich red, about 2 inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point, and exceedingly hot when ripe. **Prices:** Pkt. 10c; oz. 40c; ¼ lb. \$1.10; lb. \$4.00; **postpaid.**

### Parsley

**CULTURE**—This vegetable is very useful for flavoring soup, stews, and for garnishing. Parsley succeeds best on rich, mellow soil. The seed is slow in germinating and should be sown as early as possible in the spring in drill one to two feet apart. Cover not more than one-half inch with fine soil firmly pressed down. When the plants are well up, thin 8 to 12 inches apart in the row. When the plants of the curled varieties are about three inches high, cut off all the leaves; the plant will then start a new growth of leaves which will be brighter and better curled. If these turn dull or brown, they can be cut in the same way, and every cutting will result in improvement. Use a packet to 25 feet of drill; an ounce to 150 feet; 5 pounds to an acre.

**DOUBLE CURLED**—This is a vigorous compact growing variety, excellent for garnishing and flavoring, and a handsome decorative plant. The leaves are finely cut, and the edges heavily crimped, giving a general appearance of coarse moss. Owing to its uniformly deep green color and very attractive foliage, this is the most popular sort for both the market and home garden. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; **postpaid.**

### Parsnips

**CULTURE**—Excellent for table use, prepared like turnips or carrots, and parsnips produce an immense crop of roots in favorable soil. They are more nutritious than turnips, and any surplus may be fed to your stock, especially milk cows. Parsnips succeed best on rich, mellow soil. The seed is slow to germinate, so sow in early spring and cover the seed one-half inch, pressing soil down firmly. When well established, thin plants to 6 inches apart in drill. A packet will sow 40 feet of drill; an ounce 200 feet; 4 to 5 pounds per acre.

**HOLLOW CROWN**—This is an excellent variety for the table. The roots are long with smooth white flesh, uniform in shape, and very tender. This variety is ready for use in 90 days after planting. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; **postpaid.**



World Beater Pepper.

## Pumpkins

**CULTURE**—May be planted in middle of spring among corn or in hills 8 to 10 feet apart each way. Four seeds in a hill. If planted in hills, they are cultivated in the same manner as melons and cucumbers. For winter use gather before frost and store in a warm, dry place. Use a packet to five hills; an ounce for 25 hills; 3 to 4 pounds per acre.

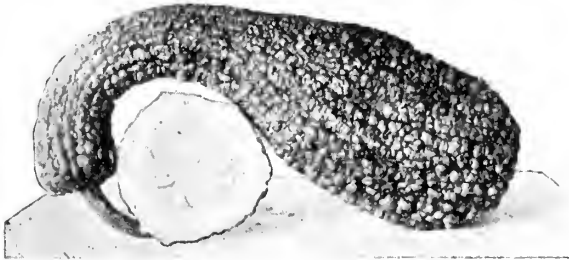
**CONNECTICUT FIELD**—This variety is also called Big Tom. It is a standard cornfield variety, producing quantities of large orange-colored pumpkins, the fruits averaging 25 pounds in weight. It matures in 120 days, and measures 18x12 inches. **Prices:** Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.

**GREEN STRIPED CASHAW**—The fruits are crook-necked, with the seed in the blossom end. The rind is white, mottled with irregular green stripes. The average weight is about 12 pounds. It is the most popular of the Cashaw types, and it is early and very productive. It matures in 120 days, and measures 16x10 inches. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**WHITE CASHAW**—It is similar to the green-striped strain, except somewhat smaller; the skin is pure white. It is sometimes called Trombone and Jonathan. The neck, or crook, is somewhat shorter than in the green-striped. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**JAPANESE PIE**—It is similar in shape to the Cashaw pumpkin, crook-necked, but the skin is a dark green, often showing a trace of lighter green stripes. It is a very early popular variety, and furnishes a large amount of food for stock or canning. The fruits weigh from 10 to 12 pounds, mature in 115 days, and measure 12x8 inches. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

**LARGE CHEESE**—The fruits are very flat, green-colored, and slightly ribbed. It is widely used for canning purposes, and it keeps exceptionally well. It is extremely prolific, and disease-resistant. The fruits weigh 9 pounds, mature in 110 days, and measure 12x7 inches. **Prices:** Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.



Early Summer Crookneck Squash.

**KENTUCKY FIELD PUMPKIN**—This variety is used very largely for canning, and for stock feeding. The fruits are flat; the seed are small and rough. It is a very hardy late variety. The fruits weigh 10 pounds, mature in 120 days, and measure 12x7 inches. **Prices:** Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.

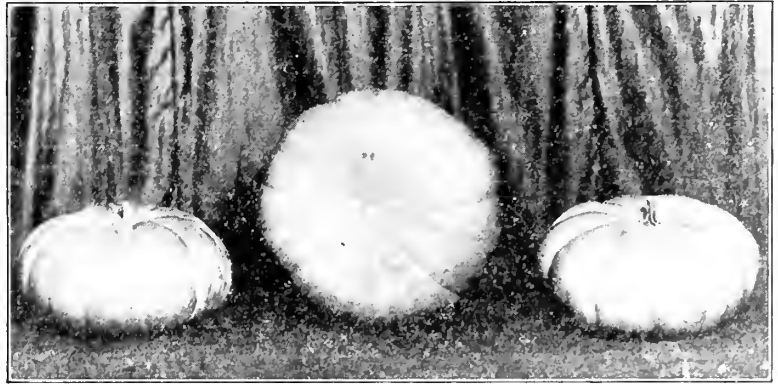
**KING OF MAMMOTH PUMPKIN**—The fruits produced are the largest of any pumpkin, and it is often called Hundred Weight. It is used largely for stock feeding, and for exhibition purposes, as occasionally fruits are produced weighing 100 pounds. They are a bright lemon in color, mottled with orange color, and are round with a trace of ribbing. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**SMALL SUGAR PUMPKIN**—Also called Boston Pie and Sugar Pie. It is late, very productive, and its thick, sweet flesh is adapted for all purposes. The fruits are round, and flat on the ends. The color is a deep orange, and the pumpkins have distinct ridges, or stripes, around them. The fruits weigh from 6 to 7 pounds, mature in 120 days, and measure 8x10 inches. **Prices:** Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 90c; postpaid.

**TENNESSEE SWEET POTATO PUMPKIN**—The fruits are pear, or bell-shaped, of medium size, and with a white skin, slightly mottled with green stripes of a light shade. It is an early type of pumpkin, and enjoys wide use. It matures in 110 days, and measures 12x9 inches. **Prices:** Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 90c; postpaid.



**KILL INSECTS**  
with  
**EVER GREEN**



Large Cheese Pumpkin.

## Square Brand Squash Seed

**CULTURE**—Plants are very tender and sensitive to cold and planting must be delayed until warm weather. The general principles of culture are the same as those given for cucumbers and melons, but plants are less particular as to soil. Summer varieties should be planted four feet apart each way and the winter sorts eight feet. Three plants are sufficient for a hill. A packet will sow about 8 hills; an ounce 30 hills; 3 to 4 pounds per acre.

**EARLY WHITE BUSH SCALLOP**—This is the most popular of white summer types of squash. The fruits are rather small, quite flat, with ridges or scalloped edges. Extremely prolific, and disease-resistant. The vines are bush, and the fruits are 8 inches across by 3 inches in diameter. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00; postpaid.

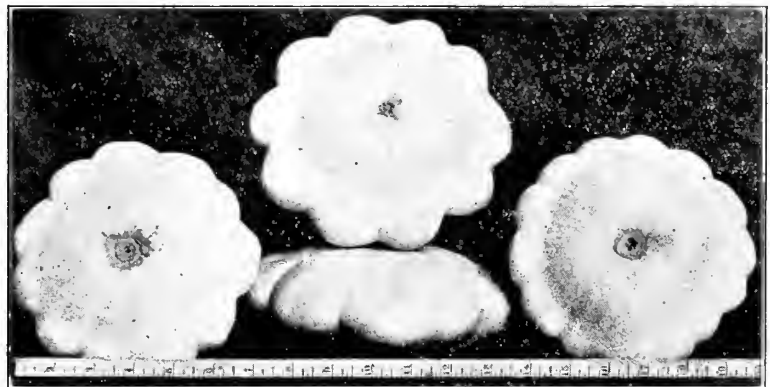
**EARLY SUMMER CROOKNECK**—A very popular type of summer crookneck squash with bush vines. The fruits are rather small, golden-yellow in color, and thickly covered with warts. The fruits weigh 3 pounds each, are edible in 50 days. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00; postpaid.

**FORDHOOK**—This is a summer variety, adapted also for winter use. The fruits are about 8x3 inches in size; the skin is a light cream, while the sides are ridged or scalloped and taper toward the stemmed end. The flesh is extremely thick and sweet, and it is sometimes called Indian Sweet Potato, as it can be baked as you would bake sweet potatoes. This variety is in wide use, and the vines are very prolific. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00; postpaid.

**HUBBARD WARTED**—The fruits are bronze-green in color and very attractive. A desirable winter squash. The fruits weigh 15 pounds each are edible in 120 days. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00; postpaid.

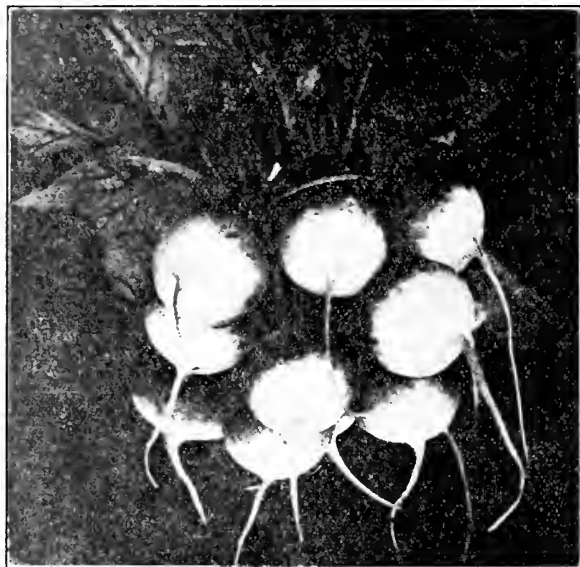
**BOSTON MARROW**—The fruits are pointed at both ends, and moderately warted. The skin is lemon in color, and the vines are extremely productive. It is widely used for canning purposes, and its keeping qualities are excellent. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00; postpaid.

Our Squash and Pumpkin seed are produced from the finest stock seed obtainable by the most reliable growers of vine seed, for the most critical trade. None of our seed is saved from culls or residue crops. Our sales are steadily increasing on Squash and Pumpkin seeds. We are sure you will be pleased with the superior stock we are offering.



Early White Bush Squash.

## Square Brand Radishes



Early Scarlet Turnip White Tip, Sparkler Strain.

**CINCINNATI MARKET**—A desirable market variety with roots similar to Early Long Scarlet Short Top, but averaging longer, deeper red in color, and remaining a little longer in condition for use. The roots are slender, and before becoming pithy are often 6 to 7 inches long, but about an inch in diameter at the shoulder. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c; postpaid.

**FRENCH BREAKFAST**—A quick growing, small olive-shaped radish about 1 ½ inches long by ½ of an inch in diameter when full grown. The color is beautiful deep rose scarlet, except a little clear white about the tips. Its small tops and earliness makes it desirable for market gardens. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c; postpaid.

**EARLY SCARLET TURNIP**—This is an excellent extra early forcing radish. The roots are small, nearly round, and of bright scarlet color. The tops are very small. The flesh is white, crisp, and well flavored. This is one of the best of the forcing varieties, and is ready for table use in 27 days after planting. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c; postpaid.

Sherman-Magnolia Seed Co.,  
Dallas, Texas.

Gentlemen:  
Thank you for your nicely illustrated catalog, and the good seed you sent me in my order. I believe quality still is foremost in your seeds. Sherman-Magnolia seeds have proven and given best results for me in field tests.

Your friend,  
R. N. BURK.



**KILL INSECTS  
with  
EVER GREEN**

Plant more Radishes—they contain rich vitamins. Our seed is imported from the most reliable growers, and are grown from transplanted stock seeds. Our stock is remarkably pure.



White Icicle Radish.

**CULTURE**—For open ground culture, sow in rich, sandy soil as soon in the spring as it is fit to work in drills 12 to 18 inches apart, and thin out the plants to prevent crowding. They should receive plenty of water, and in order to raise the best radishes, they should be grown quickly. Crisp radishes cannot be produced in heavy soils. Successive sowings from one week to ten days apart will keep up a supply. A packet will sow 20 feet of drill; an ounce 100 feet; 8 to 10 pounds per acre. Thin out the small varieties one inch apart and the larger varieties 3 to 4 inches.

**EARLY SCARLET TURNIP WHITE TIPPED (Sparkler Strain)**—The small round roots are of rich scarlet color, with a pronounced tip of pure white. It is well adapted for forcing, and remains solid and crisp a long time. It is largely planted for northern markets by south Texas truck growers and is ready for table use in 28 days after planting. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c; postpaid.

**PERFECTION WHITE TIP**—This radish is quite similar to Scarlet Turnip White Tip as to time of maturity and size. The root, however, is more oblong, and the white is more even, and extends about halfway up on the radish. The top is a little larger than the Scarlet Turnip White Tip, and the flesh is white and of the very best quality. This variety is ready for table use in 28 days after planting, and you should try some of them this year. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.

**VICK'S EARLY SCARLET GLOBE**—The roots of this variety are slightly olive shape, and are a rich bright scarlet in color. The flesh is white and tender. We especially recommend this to gardeners as a large, fast, early forcing radish. It is also desirable for first early planting outdoors for the home gardener and market. It can be pulled 28 days after planting. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.

**CRIMSON GIANT**—A round radish of exceptionally large size for so early a variety. The roots are nearly globe-shaped, of beautiful crimson color, and most excellent quality, often growing 1 ¾ inches in diameter before becoming pithy. It is a desirable variety for general outdoor planting, and also suitable for forcing where a very large round radish is wanted. This variety is ready for pulling in 28 days after planting. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.

**CHARTIER**—One of the best long radishes for planting outdoors for early summer use in the home garden. It is also used for market use. The tops are medium-sized, and the roots are in good condition for the table when one-half inch thick, and continue hard and crisp until they reach a diameter of about one inch. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c; postpaid.



Vick's Early Scarlet Globe.

**LONG SCARLET SHORT TOP**—This is an extra early, long radish, ready for use 25 days after sowing. The roots grow five to six inches long with a third of their length above the ground. The flesh is crisp and tender until fully grown. The tops are short and small. The roots are uniform in shape and a very attractive bright, carmen red color. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c; postpaid.

**WHITE ICICLE**—This is the leading long white radish, and one of the earliest. The tops are medium size; the roots are clear white, slender, smooth, and average when mature 6 to 7 inches long by ¾ of an inch in diameter at the thickest part. The flesh is very crisp and tender, and very brittle. This variety is desirable for market and home garden use. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 70c; postpaid.

**CHINA ROSE WINTER**—This variety is extensively grown for fall and winter use. The roots are cylindrical, the largest near the bottom, and blunt at both ends. The skin is smooth and of a bright deep rose color. The flesh is white, firm, crisp, and pungent. The tops are moderately large, and the roots are usually 4 to 5 inches long when fully matured. It is a desirable late maturing garden variety. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 70c; postpaid.

**LONG BLACK SPANISH**—This is one of the latest and hardiest long garden radishes, especially adapted for winter use. The roots are long, thick, almost black, and somewhat wrinkled. The flesh is white, of firm texture, decidedly pungent, but well flavored. The roots are 7 to 9 inches long. Prices: Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.



## Reselected Spinach Seed

**CULTURE**—The seed should be planted in very rich ground in drills 16 to 20 inches apart. Plants should be thinned out six inches apart in the row when the leaves are an inch wide. Seed may also be sown broadcast. The main crop is sown in September or October for winter use, and in February and March for spring use. A packet will sow about 25 feet of drill; an ounce 100 feet; 12 to 15 pounds per acre in drills; 20 to 25 pounds broadcast.

**RESELECTED BLOOMSDALE SAVOY**—This is a very early variety, and one of the best to plant in autumn for early spring use. The plant is of upright growth, with thick, glossy, dark green leaves of medium size, pointed but quite broad and crumpled, or blistered. It is hardy, and grows rapidly to a suitable size for use, but runs to seed quickly in warm weather. **Prices:** Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 40c; postpaid.

**VIROFLAY**—This variety is desirable for either spring or fall sowing. The plants are of an upright growth, and the leaves are very large, broad, thick, and arrow-shaped. They are much crumpled, and dark green in color. This is a desirable variety for canning because of its clean, upright leaves. It is ready for use in 43 days after planting. **Prices:** Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 40c; postpaid.

**NEW ZEALAND**—This is not related to true spinach but the leaves bear a resemblance to spinach and are useful as greens. Best for hot weather. The tender shoots are good quality, and may be cut throughout the summer. The leaves are comparatively small, broad, and pointed. Plant three or four seeds in holes two feet apart each way. Germination of the seed can be hastened by soaking in warm water twenty-four hours before planting. **Prices:** Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid.



Reselected Bloomsdale Savoy.

## Salsify (Oyster Plant)

**CULTURE**—Sow in rows 12 to 18 inches apart. Thin to 6 or 7 inches apart in the row. Cover the seed firmly with one-half inch fine soil; the roots when cooked are very palatable and the flavor is

similar to the oyster. One ounce will sow 50 feet of row. **MAMMOTH SANDWICH ISLAND**—Produces long, smooth, white, tapering roots. Tender and delicious. **Prices:** Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00; postpaid.

## Square Brand Selected Tomato Seed

**CULTURE**—Tomatoes do best on light, warm, not over-rich soil, and success depends largely upon securing a rapid, vigorous, and unchecked growth during the early part of the season. Sow in January and February in hotbeds for early crops. Set out the plants as soon as danger from frost is over, but before doing so, harden off the plants by gradually exposing them to the night air and by the withdrawal of water until the wood becomes hard and the leaves thick and of a dark green color. Transplant carefully and cultivate well as long as the vines will permit. If to be grown without training, the plants are usually set from three to four feet apart each way, according to the growth of the variety. All our tomato seed are from carefully selected seed stocks and we invite comparison of our stocks with any offered. A packet will produce about 100 plants; an ounce about 1,500 plants; 4 ounces will produce sufficient plants to set out an acre.

**GREATER BALTIMORE**—This is a mid-season, or main crop variety, and is extensively used for canning. It is also a desirable home garden sort. The fruits are medium to large-sized, solid and meaty, and ripen evenly in 100 days. The fruits are a rich bright red. **Prices:** Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50; postpaid.

**EARLY ACME**—This is a well known, hardy, early, and productive variety. The vines are large, ripening their first fruits very early, although not an extra early variety. The fruits are purplish-pink, round, smooth, and of medium size, free from cracks, and stand shipment very well. A very good home garden variety. **Prices:** Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.25; postpaid.

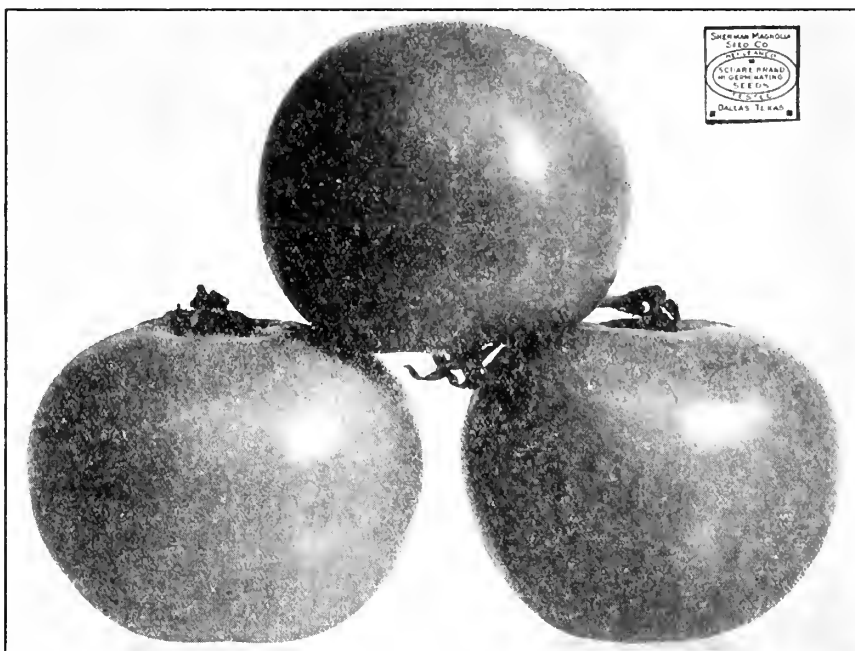
**COOPER'S SPECIAL**—This is a distinct second early variety. The vines are about 3 feet tall, being intermediate in height, between the dwarf and tall-growing sorts. The plants do not require any pruning, due to their limited branching habit. The fruits are of medium size, globe-shaped, light purplish-pink in color, solid and meaty, and of excellent flavor. **Prices:** Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50; postpaid.

**DWARF CHAMPION**—This is a second early, or main crop purplish-pink variety, especially desirable where garden space is limited. The vines are about 2 feet high, vigorous, upright, and compact. This is one of the best small tree varieties. **Prices:** Pkt. 10c; oz. 35c; ¼ lb. \$1.25; lb. \$4.25; postpaid.

**EARLY DETROIT**—One of the best and earliest of the early purplish-pink varieties. The vines are vigorous and very productive. One of the most valuable shipping tomatoes, also desirable for the home garden and markets. **Prices:** Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.75; postpaid.

**MARGLOBE**—This is a new variety introduced by the Department of Agriculture of Texas, a cross between Livingston Globe and Marvel. It is disease-resistant, and is very valuable for use in disease-infested districts. A main crop or mid-season variety with fruits of deep red color, globe-shaped, and mature in 95 days. An excellent shipping and market variety, also very desirable for the home garden. The growers in South Texas use a large amount of this seed every year for shipment to northern markets. **Prices:** Pkt. 10c; oz. 40c; ¼ lb. \$1.40; lb. \$4.50; postpaid.

**GULF STATE MARKET**—Although this variety was developed primarily to meet the demands of tomato growers who ship to distant markets, its many excellent qualities make it also a very desirable sort for the home gardener or the grower for local markets. The fruits are medium to large size, round or globe-shaped, show but little depression about the stem, and are smooth and free from cracks. They are a deep purplish-pink in color, ripening well about the stem, and mature in season with Early Detroit. The skin is firm, and the flesh solid, and it is one of the most desirable home or market sorts. **Prices:** Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00; postpaid.



Marglobe Tomatoes.



Dwarf Champion.

**DWARF STONE**—One of the best of the dwarf growing tomatoes. The growing habits are practically the same as the Dwarf Champion. An intermediate, or late maturing variety of good color, being an attractive bright red, exceedingly smooth, and very solid. A desirable variety for the home garden. Prices: Pkt. 10c; oz. 35c; ¼ lb. \$1.25; lb. \$4.25; postpaid.

**REDFIELD BEAUTY**—A very vigorous variety and its comparative freedom from rotting under the most trying conditions of growth makes it a favorite everywhere. Its color is glossy-crimson with a slight tinge of purple. A good variety for home use and nearby market. Prices: Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.25; postpaid.

**CHALK'S EARLY JEWEL**—This is one of the best early tomatoes. The fruits are a bright deep scarlet-red, nearly round or somewhat flattened, smooth, of large size, and most excellent quality. They ripen very early, and the pickings continue through a long season. One of the best varieties for the home garden. Prices: Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.75; postpaid.

**EARLY TEXAS SPECIAL**—This is a variety that we are introducing as the best sort for home use and shipping. It is a bright scarlet variety not only on the surface but all the way through. The fruits are large, regular in shape and a semi-globe type. The vines are vigorous and prolific and bear their fruits in clusters. The size and shape of the fruits make this variety a very desirable salad or slicing tomato, and the color and quality make it ideally suited for canning. It is an excellent shipping sort and will stand shipping to distant markets as well or better than any tomato yet introduced. In our trial the fruit averaged from 7 to 8 ounces in weight and matured in 90 days after planting. Be sure to plant some of this seed this season and you will have some of the best tomatoes you have ever grown. Prices: Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00; postpaid.

**McGEE**—A variety originated in Texas, and yields where others fail. It is a large yielder, and very prolific. The fruits are large, solid, with very few seeds, and of fine flavor, and are a bright crimson color. This variety is very desirable for planting in the black-land belt of Texas. Matures in 90 days. Prices: Pkt. 10c; oz. 25c; ¼ lb. 85c; lb. \$3.00; postpaid.

**BONNY BEST**—The fruits of this desirable, early sort are most attractive in shape and color, vines are vigorous and very productive, and produce a good crop of exceptionally round and deep fruits, bright, deep scarlet in color and of very good quality. A very good variety for the early market and home garden. Prices: Pkt. 10c; oz. 25c; ¼ lb. 85c; lb. \$3.00; postpaid.

**YELLOW PEAR**—This variety produces fruits of a rich clear yellow color, distinctly pear-shaped and of excellent flavor. It is used for preserves, and to make "Tomato Figs," an enormous bearer. Prices: Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$4.50; postpaid.

Sherman-Magnolia Seed Co.,  
Dallas, Texas.

Harlingen, Texas.

Gentlemen:—We grew your Clark's early and Early Texas Special Tomato Seed last season. This seed was bought in sealed bags from your local dealer here at Harlingen.

We had wonderful success with this seed, and at this time we want to give you a report, showing the amount we made from 1½ acres of tomatoes. From this acreage we sold the following amounts to the produce dealers, and received the amount of money as shown on this report: 9,571 Pounds Green Wrap Tomatoes, \$466.68; 461 Crates Pink Tomatoes, \$651.90; 3,379 Pounds Ripe Tomatoes, \$147.36; Total, \$1,265.94.

We believe your Square Brand Hi-Germinating Seed are of the highest type, as we find they give entire satisfaction, and in our tomato field last year we had a very small percentage of culls. Your seed has certainly stood up to all the claims you have made for it.

Yours very truly, SAMS BROTHERS. By W. L. Sams.

## Tomatoes (Continued)

**STONE**—One of the largest and most solid main crop or late bright red varieties. Unsurpassed for slicing and canning. The vines are large, vigorous, and very productive. The fruits are a bright deep scarlet oval, and very deep, especially smooth and uniform in size. A very desirable variety for market gardeners, also the home garden. Prices: Pkt. 10c; oz. 20c; ¼ lb. 70c; lb. \$2.50; postpaid.

**JUNE PINK**—This is a variety similar to Earliana; however, it differs in the color of the fruit. It is the best extra early purple variety, and sets its fruit in clusters of from six to eight fruits to the cluster. The fruits are of medium size, uniform, smooth, and solid. An excellent variety for shipping, and also a favorite with the market gardener, and is popular for the home garden. Prices: Pkt. 10c; oz. 35c; ¼ lb. \$1.25; lb. \$4.25; postpaid.

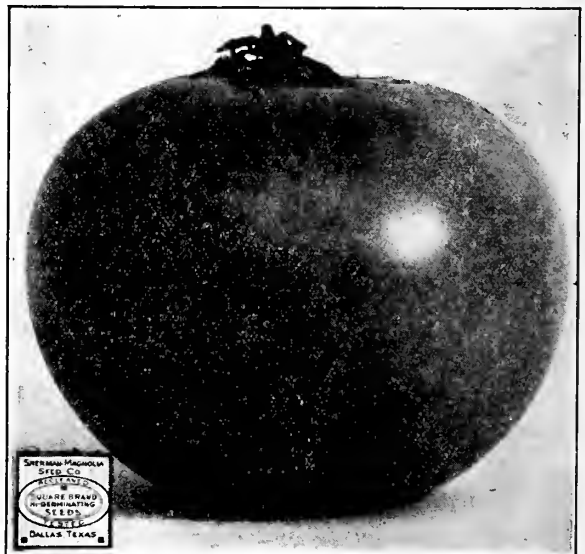
**LIVINGSTON'S GLOBE**—A large purplish-pink, globe-shaped or very nearly round tomato, of excellent quality. It is extensively used for shipping. The vines are very vigorous and productive, with fruits of rather uneven size, but very smooth. A very popular variety with growers for shipping to distant markets, also popular for home garden use. Prices: Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.75; postpaid.

**SPARK'S EARLIANA**—A variety that is planted extensively by market gardeners, as well as home gardeners. The fruits are bright deep scarlet, medium to large, nearly round, smooth, solid, and produced in clusters in the center of the plant, and the bulk of the crop ripens very early. Prices: Pkt. 10c; oz. 30c; ¼ lb. 90c; lb. \$3.00; postpaid.

**JOHN BAER**—This is an extra early scarlet-fruited variety, of superior merit. The vines are very hardy, and are especially productive. The fruits are the largest of the extra early varieties. They are nearly round, smooth, firm, of excellent quality, and mature in 85 days. It is an invaluable variety for market gardeners, shippers, and canners. Prices: Pkt. 10c; oz. 30c; ¼ lb. 90c; lb. \$3.00; postpaid.

**PONDEROSA**—This is a purplish-pink main crop tomato of the largest size. The vines are vigorous and very productive. The fruits are very solid, with exceptionally few seeds, fairly smooth, and considered of a very good quality, especially by those who prefer a tomato quite free from acid. Prices: Pkt. 10c; oz. 50c; ¼ lb. \$1.65; lb. \$5.50; postpaid.

**CLARK'S EARLY**—This is a medium early variety of unsurpassed bright scarlet color. The fruits are large, regular in shape and exceptionally deep through from stem to bottom. The vines are vigorous and prolific and bear their fruits in clusters that are most attractive. This variety is desirable for canning and it also good for slicing. It has a good interior color and small seed pockets with little core. Prices: Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00; postpaid.

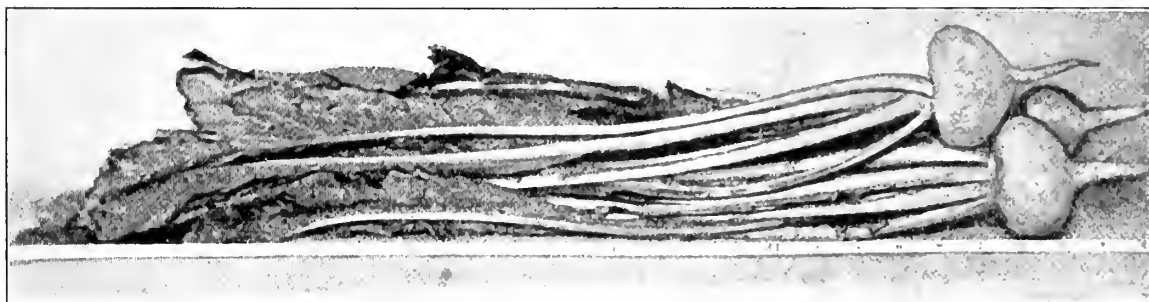


Clark's Early.

## Turnips and Rutabagas for Market and Home Garden



Purple Top, White Globe.



Shogoin or Japanese Turnip.

**EARLY PURPLE TOP (Strap Leaf)**—This is a very early variety, very extensively used for the table. The leaves are few and upright in growth. The roots are flat, of medium size, purple or dark red above the ground, white below, and mature in 45 days. The roots when in best condition for table use are about 2½ inches in diameter, but can be grown much larger for stock feeding. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**LONG WHITE COWHORN**—The roots of this variety are often 12 to 15 inches long and 3 inches in diameter, carrot-like in form and slightly crooked. The roots are red above the ground and white below. The flesh is white, fine-grained and well flavored. Best for table use when 3 to 4 inches long, but can be grown longer for stock feeding. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**SHOGGIN or JAPANESE**—A new variety that is becoming very popular in the South. Especially valuable for turnip greens, which are always in good demand during the late spring and summer months. The leaves grow upright about two feet high when fully developed, and due to its rapid growth, it is practically free from insect attacks. The roots are pure white, between flat and globe in shape; however, this wonderful new sort is more largely planted for the tops, rather than the roots. It is very popular with the canners, and is sometimes sold as touse-resistant turnip. Prices: Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c; postpaid.

**SEVEN TOP (For Turnip Greens)**—This sort is cultivated extensively in the South for the tops, which are used for greens. In many sections it is a favorite green feed for stock and its use, like Rape for a pasture crop, is quite general. This sort is very hardy and the growth usually continues throughout the winter. The variety is not generally depended upon for the root since the tops are produced so abundantly. Popular with canners, shippers, and a desirable sort for the home garden. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**RUTABAGA—IMPROVED AMERICAN PURPLE TOP**—This is a strain of purple-topped Rutabaga of American origin, with a smaller top and much shorter neck than is usually found, while the roots are a little more globular, grow to a large size, and are of the finest quality. Excellent for both table use and stock feeding. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**CULTURE**—For summer use, sow early in spring in light, rich or new soil in drills 1½ to 2 feet apart and cover one-half inch deep. They may be sown broadcast, but in either case be sure to have the ground rich and freshly stirred. It is important to get the spring and summer crops started early so that the turnips may have time to grow to sufficient size before hot weather causes them to become tough and bitter. For the fall or main crop, sow from the middle of July to the middle of September and in the manner given for spring sowing. A packet will sow about 50 feet of drill; an ounce 250 feet; 1 pound per acre in drills, or 2 to 3 pounds broadcast.

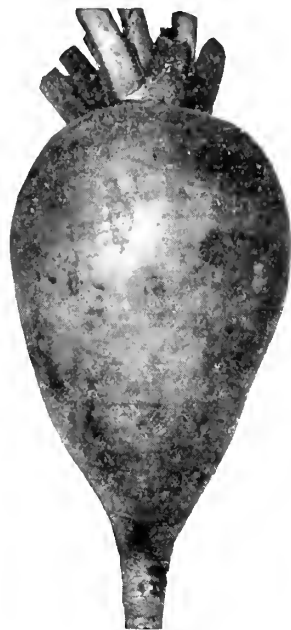
**AMBER GLOBE**—One of the best yellow-fleshed varieties, roots are of large size and globular shape and the skin is a clear yellow, except the top, which is tinged with green. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**EARLY WHITE FLAT DUTCH (Strap Leaf)**—A very early white turnip, extensively used for the table, especially in the South. The roots are medium-sized, flat, very white-fleshed, fine-grained, and sweet. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**PURPLE TOP WHITE GLOBE**—This excellent table variety is globular in shape, of good size, and very attractive appearance. The roots are large, purple or dark red above ground, white below, and mature in 60 days. The flesh is white, fine-grained, and tender. This variety is very popular with market gardeners, and for the home garden. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**WHITE EGG**—An early oval, or egg-shaped variety, with smooth clear white roots of medium size, which grow half out of the ground. The tops are small, with leaves distinctly cut. The flesh is clear white, firm, fine-grained, and sweet. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.

**POMERANIAN WHITE GLOBE**—One of the most productive kinds, and in good rich soil the roots will frequently grow to 12 pounds in weight. The roots are globe-shaped, or slightly flattened, skin very white and smooth. Best for table when the roots are not more than 4 to 5 inches in diameter. A favorite with home gardeners and canners when the tops are used for greens. Prices: Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c; postpaid.



White Egg Turnip.

Sherman-Magnolia Seed Co.,  
Dallas, Texas.

Dear Sirs:

I have seen some of your seed ordered by my neighbor, Mrs. John H. Smith. I liked them so well, I am ordering also. Your prices are lower and you give more seed to the packet than we get here. Hoping this will serve all right as an order blank, I am,

Yours truly,

MRS. RAYMOND DONNELL.

Saint Jo, Texas.

## Herbs, Roots and Potatoes

### Herbs

**CULTURE**—Most herbs thrive best in sandy soil and are better flavored when grown on poor soil. The soil should be carefully prepared and well cultivated as the young plants are easily choked out by weeds. Sow as early as the ground can be made ready in drills 16 to 18 inches apart, lightly pressing the soil over the seed. Most of them should be cut when in bloom, wilted in the sun and thoroughly dried in the shade.

**ANISE**—An annual herb, cultivated principally for its seeds, which have a fragrant, agreeable smell and a pleasant taste. Used medicinally for aromatic cordials, colic and nausea. Also used for garnishing and flavoring.

**BASIL, SWEET**—A hardy aromatic annual. The seeds and stems have a strong flavor and are used in soups and sauces.

**CARAWAY**—A well known herb, cultivated for its seeds, which are used in confectionery, cakes, etc.

**CORIANDER**—A hardy annual, cultivated for its seed which has an agreeable taste, is used in confectioneries and to disguise the taste of medicine.

**DILL**—An annual of aromatic odor and warm pungent taste. Its seeds are used for seasoning. It produces medicinal properties but it is largely used for making dill pickles.

**FENNEL, SWEET**—A hardy perennial. The seeds of this aromatic herb have a pleasant taste and are sometimes used in confectioneries, also in various medicinal preparations.

**SAGE**—One of the most extensively used herbs for seasoning. Cut the leaves in tender shoots just as the plant is coming into flower and dry quickly in the shade.

**SAVORY, SUMMER**—A hardy aromatic annual. The dried stems, leaves and flowers are extensively used for seasoning, especially in dressings and soups.

**THYME**—An aromatic perennial herb, used principally for seasoning. **Prices on all Herbs: 10c per Pkt., 3 Pkts., 25c; postpaid.**

### Roots

**HORSE RADISH ROOTS**—Most people like food or relishes seasoned with horseradish. You can usually buy it at the stores, but so adulterated as to be almost worthless. Horseradish can be grown almost anywhere in the South successfully, but gives best results in rich, rather moist, partly shaded locations. **Price: 35c per doz.; postpaid.**

**RHUBARB, or PIE PLANT ROOTS**—Rhubarb is about the earliest plant you can use in the spring for pie-making and stewing. It also has great medicinal qualities. Extract of rhubarb is largely used to aid digestion. It is recommended for Gulf Coast sections, but it does well in the central south and central north in moist, rich, heavily fertilized, partly shaded locations. Set out the roots in early spring. **Price: \$2.00 per doz.; postpaid.**

For prices on Asparagus Roots, see page 2

## Control Disease - Increase Yield

### Hasten Germination - Improve Quality

By preventing costly seed-borne diseases with

**SEMESAN, FOR VEGETABLE AND FLOWER SEEDS**  
**SEMESAN BEL, FOR SEED POTATOES**

**SEMESAN JR., FOR SEED CORN**

**CERESAN, FOR COTTON, WHEAT, OATS, BARLEY, ETC.**

**SEMESAN** can be applied in either the liquid or convenient dust form to prevent or control effectively a most diversified variety of diseases and fungus growths borne by seeds, bulbs, roots, tubers, plants, grafts and soils. It is absolutely harmless to seed and plant life, but extremely poisonous to disease and parasitic organisms. Controls damping-off, rots and scabs on roots and bulbs and many seed-borne diseases. 1 oz. treats 15 lbs. to 30 lbs. of seed by the dust method, or from 40 to 60 lbs. by the liquid method. **Prices: 2 oz., 50c; 1 lb., \$2.75; 5 lb., \$13.00; 25 lb. pail, \$56.25; 100 lb. drum, \$220.00, delivered to you.**

**SEMESAN BEL**—For Seed Potatoes, a dip disinfectant. Instantaneous in action. Costs from 1½¢ to 3¢ per bushel of seed and protects against rotting and scab. 1 lb. treats from 60 to 80 bushels of seed potatoes. **Prices: 4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$31.25; 100 lbs., \$120.00, delivered to you.**

**SEMESAN JR.** is applied by the simple dusting method, at the rate of 2 ounces to each bushel of seed field or sweet corn. The use of Semesan Jr. protects seed from rotting in the ground and makes possible earlier planting, usually resulting in increased yields. **Prices: 4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$31.25; 100-lb. drum, \$120.00, delivered to you.**

### Sodium Chlorate Weed Killer

Kills weeds and Johnson Grass when applied as the plants are first heading out. Dissolve 100 lbs. of Sodium Chlorate to 100 gallons of water. Will treat one acre of badly infested ground. Wait three weeks to plant—or only two weeks if weather is very dry.

Due to the very considerable fluctuations in chemicals of this nature, when you are ready for a weed killer, write us for quotations.

### Seed Potatoes

**CERTIFIED SEED**—It is false economy to save fifty cents a bag by buying ordinary seed potatoes, when certified seed can be had. The most successful potato growers use nothing but certified seed. Certification has done for the potatoes what breeding has done for horses, cattle, hogs, etc. The small additional cost of certified seed over ordinary seed is not worth considering. There is less disease, more No. 1 potatoes and greater profit to the grower. Every bag carries the tag of the inspection authorities; this is an assurance that every safeguard has been applied to have them as pure as is humanly possible. Last season we had growers report they made over a 100% increase in yield on certified stock over the ordinary seed. **It will pay you to plant Certified Seed.**

**CERTIFIED BLISS RED TRIUMPH**—To those who prefer a potato with a pink skin and white flesh, or those who grow for markets where this color is in demand, we recommend our Certified Bliss Triumph. It is one of the very earliest, nearly round, peels without waste, a fine yielder and makes a very handsome potato. It is a sure and uniform cropper, a strong grower, is of good size, cooks white and mealy and is in good demand. Each bag bears the State Certification tag. **Ask for prices.**

**CERTIFIED IRISH COBBLER**—This is a very good shipper. Shape is the same as the Triumph, but somewhat larger and is white in color. Each bag bears the State Certification tag. Especially desirable for black soils. **Ask for prices.**

## Treat Your Seed Potatoes Before Planting With Semesan Bel



The spotty stand of potatoes on the left grown from untreated seed did not produce as large a yield as the fine stand of vigorous plants on the right, from Improved Semesan Bel treated seed.

**CERESAN**—the protection you have been needing for your cotton and seed grains. Ceresan prevents Cotton Seed from rotting in cold, wet soil when planted early to avoid the weevil; kills surface seed-borne anthracnose, angular leaf-spot, and certain boll-rots; reduces the number of plants killed by damping-off; and insures a more uniform stand of vigorous, healthy plants. Use 3 ounces per bushel of seed. Ceresan will absolutely control smut on wheat, oats, barley or rye. Should be dusted on the seed before planting. 2 ounces treats one bushel of wheat or rye; three ounces to the bushel of oats or barley. **Prices: 1 lb., 75c; 5 lbs., \$3.00; 25 lbs., \$12.50; 100 lbs., \$49.00, delivered to you.**

### Ask For These Free Pamphlets



Cereal, Corn, Potato, Vegetable and Flower pamphlet sent free on request.

### Superior Pruning Compound

A compound which heals wounds on trees or other plants, where they have been pruned or broken off. Avoids all rot and deformities that so frequently result from pruning. We recommend this especially for orchard work. It was originated in the Rio Grande Valley, and is especially fine for Citrus and other orchard use.

**Prices, F. O. B. Dallas: Quarts, \$1.00 each; Gallons, \$3.75 each.**





# Plant Square Brand Hi-Germinating Seeds For Higher Yields of More Marketable Crops



## Square Brand Vegetable Planting Table

Name of Vegetable	Seed for 50 feet of row	Distance Between Rows	Plants Apart In Row	Depth To Plant	TIME TO PLANT	READY TO USE
ARTICHOKE	1 oz.	3 ft.	2 ft.	1 in.	Feb. and Mar.	6 months
ASPARAGUS ROOTS	25-30	3 ft.	1 1/2 ft.	6 to 8 in.	Feb. and Mar.	1 to 2 years
BEANS, Bush Snap and Lima	1/2 lb.	2 ft.	3 in.	1 in.	Feb. to April; Aug. to Oct.	6 to 9 weeks
BEANS, Pole and Lima	1/2 lb.	3 ft.	12 in.	1 in.	Mar. to May; Aug. to Oct.	8 to 12 weeks
BEEFS	1 oz.	1 ft.	3 in.	1 in.	Mar. to May; Sept. and Oct.	6 to 11 weeks
BROCCOLI	1/2 oz.	2 ft.	2 ft.	1/2 in.	Mar. and April	3 to 4 months
CABBAGE, Early	1/2 oz.	2 ft.	1 ft.	1/2 in.	Oct. to Dec.	3 to 4 months
CABBAGE, Late	1/2 oz.	2 1/2 ft.	1 1/2 ft.	1/2 in.	June and July	3 to 4 months
CABBAGE PLANTS	50	2 ft.	1 ft.	3 in.	Feb. to May; July to Sept.	2 1/2 to 3 months
CANTALOUPE	1/2 oz.	4 ft.	Hills 3 ft.	1 in.	April to June	3 months
CARROT	1/2 oz.	1 ft.	2 in.	1/2 in.	Feb. to April; Aug. and Sept.	9 to 14 weeks
CAULIFLOWER	1/2 oz.	2 ft.	1 ft.	1/2 in.	Feb. to April; Aug. and Sept.	3 to 4 months
CELERY	1/2 oz.	2 ft.	6 in.	3/4 in.	Aug. to Oct.	4 to 5 months
COLLARDS	1/2 oz.	20 in.	18 in.	10 in.	Sept. to May	3 to 4 months
CORN, Sweet and Sugar	1/2 lb.	2 ft.	2 to 3 ft.	2 in.	Feb. to April; July and Aug.	2 1/2 to 3 months
CORN, Pop	1/2 lb.	3 ft.	1 ft.	1 in.	April to July	3 to 3 1/2 months
CUCUMBERS	1/2 oz.	4 ft.	3 ft.	1 in.	Mar. to May; Aug.	2 to 2 1/2 months
EGGPLANT	1 pkt.	2 1/2 ft.	1 1/2 to 2 ft	1/2 in.	Feb. to April	3 to 4 months
EGGPLANT PLANTS	25	2 1/2 ft.	1 1/2 to 2 ft	3 in.	Mar. to May	2 to 3 months
ENDIVE	1/2 oz.	1 1/2 ft.	6 in.	1/2 in.	Feb. to April; Aug.	3 months
HERBS	2 pkts.	1 1/2 ft.	6 in.	1/2 in.	Mar. to May	2 to 3 months
HORSE RADISH ROOTS	50	2 ft.	1 ft.	4 in.	Feb. and Mar.	1 to 2 years
KALE or BORECOLE	1/2 oz.	15 in.	4 in.	1/2 in.	Oct. to Mar.	3 to 4 months
KOHLRABI	1/2 oz.	15 in.	4 in.	1/2 in.	Sept. to Mar.	2 to 3 months
LEEK	1/2 oz.	2 ft.	4 in.	1/2 in.	Mar. and April; Sept.	3 to 4 months
LETTUCE	1/2 oz.	1 ft.	8 in.	1/2 in.	Feb. to May	2 to 3 months
MUSTARD	1 oz.	1 ft.	3 in.	1/2 in.	Feb. to May; July to Nov.	6 to 8 weeks
OKRA	2 oz.	3 ft.	1 ft.	1 in.	Sept. to Mar.	3 to 4 months
ONION	1/2 oz.	1 ft.	2 in.	1 in.	Mar. and Oct.; Mar. and April	4 to 5 months
ONION PLANTS	150	15 in.	4 in.	1 in.	Jan. to May	3 to 4 months
ONION SETS	1 lb.	18 in.	3 in.	1 in.	Jan. to April; Aug. and Sept.	2 1/2 to 3 months
PARSLEY	1/2 oz.	1 ft.	3 in.	1/2 in.	Mar. and April; Aug. and Sept.	3 to 4 months
PARSNIPS	1/2 oz.	1 ft.	4 in.	1 in.	Feb. and Mar.; Sept.	4 to 5 months
PEAS	1 lb.	2 ft.	2 in.	3 in.	Feb. and Mar.; Aug. to Oct.	6 to 9 weeks
PEPPER	1 pkt.	2 ft.	1 1/2 ft.	1/2 in.	Mar. to June	3 to 4 months
PEPPER PLANTS	40-50	18 in.	15 in.	3 in.	Mar. to June	2 1/2 to 3 months
POTATOES, Irish	4 lbs.	2 ft.	1 ft.	4 in.	Feb. to April; July and Aug.	3 months
POTATOES, Sweet, Plants	30	2 1/2 ft.	1 1/2 ft.	3 in.	Mar. to July	4 to 5 months
PUMPKIN	1/2 oz.	5 to 6 ft.	5 ft.	1 in.	April to June	3 to 4 months
RADISH	1 oz.	1 ft.	2 in.	1/2 in.	Sept. to May	3 to 6 weeks
RHUBARB or PIE PLANT ROOTS	25	3 ft.	3 ft.	3 in.	Jan. to Mar.	1 to 2 years
RUTABAGA	1/2 oz.	1 1/2 ft.	3 in.	1/2 in.	Feb. to May; July to Nov.	8 to 10 weeks
SALSIFY	1/2 oz.	18 in.	2 in.	1/2 in.	Feb. to May	4 to 5 months
SPINACH	2 oz.	12 in.	1 in.	1 in.	Feb. to May; Aug. to Nov.	4 to 6 weeks
SWISS CHARD	1 oz.	1 ft.	3 in.	1 in.	Mar. to May; Sept. and Oct.	6 to 11 weeks
SQUASH, Bush	1/2 oz.	2 ft.	2 ft.	1 in.	Mar. to June	2 to 2 1/2 months
SQUASH, Late	1/2 oz.	3 ft.	3 ft.	1 in.	April to July	3 to 4 1/2 months
TOMATO	1 pkt.	3 ft.	2 1/2 ft.	1/2 in.	Dec. to Mar.	3 to 4 months
TOMATO PLANTS	25 to 30	2 ft.	1 1/2 ft.	3 in.	April and May	3 months
TURNIPS	1/2 oz.	1 1/2 ft.	3 in.	1/2 in.	Feb. to May; July to Nov.	8 to 10 weeks
WATERMELON	1/2 oz.	6 ft.	6 ft.	1 in.	Mar. to May	4 to 5 months

## Field Seed Planting Calendar

	Time to Plant	Seed Per Acre	Wt. Per Bushel
ALFALFA	September-November-March-May	18 to 20 pounds	60 pounds
ALGERIA	March, April to June	5 to 8 pounds	50 pounds
BARLEY, Winter-Spring	August-November, February-March	1 to 1 1/2 bushel	48 pounds
BEANS, Mammoth Soy	April to June	15 to 30 pounds	60 pounds
BEANS, Small Soy	April to June	6 to 15 pounds	60 pounds
BEANS, Velvet	April to June	15 to 30 pounds	60 pounds
BROOM CORN	May to June	6 to 8 pounds	46 pounds
BUCKWHEAT	March to April	48 pounds	48 pounds
CLOVER, Sweet	February-April, September-October	20 pounds	60 pounds
CLOVER, Bur.	July to November	40 pounds	30 pounds
CORN, Field	March to July	7 to 8 pounds	56 pounds
COTTON SEED	March to May	1/2 to 1 bushel	32 pounds
DARSO, Drilled	March to August	5 to 8 pounds	50 pounds
EGYPTIAN WHEAT	March to May	5 to 8 pounds	50 pounds
FETERITA	March to June	6 to 10 pounds	50 pounds
GRASS, Bermuda	March to May	5 to 8 pounds	15 pounds
GRASS, Sudan, Broadcast	March to May	25 to 40 pounds	30 pounds
SUDAN, Drilled	March to May	5 to 7 pounds	30 pounds
HEGARI, Drilled	April to June	5 to 8 pounds	50 pounds
KAFIR, Drilled	April to May	5 to 8 pounds	50 pounds
MILK, Drilled	April to May	5 to 8 pounds	50 pounds
MILLET	April to June	20 to 30 pounds	50 pounds
OATS	January-February, September-October	2 1/2 bushels	32 pounds
PEANUTS, Spanish	April, May	35 to 40 pounds	30 pounds
PEANUTS, Tennessee Red	April, May	2 bushels	22 pounds
PEAS, Stock	April to August	90 to 120 pounds	60 pounds
RAPE	February-April, August-November	5 to 8 pounds	50 pounds
RYE	July to November	1 1/2 bushels	56 pounds
SORGHUM, Broadcast	April to July	2 to 3 bushels	50 pounds
SUNFLOWER	March to July	8 to 10 pounds	30 pounds
VETCH	February-March, July-November	20 pounds	60 pounds
WHEAT	September, October, November	60 to 75 pounds	60 pounds

## Square Brand Flower Seeds

Everyone can have, and should enjoy the beautiful flowers that grow and bloom so freely, with just a little care and attention to your garden. In addition to the pleasure to be had from flowers, many people find them a source of considerable profit, since local florists are always glad to buy "at home" rather than to have flowers shipped in from distant points, so frequently resulting in losses.

There are no profound secrets about growing beautiful flowers; yet it is necessary to study them, just as you would anything else you attempted to raise. The few hints given below will be of assistance to you:

**SOIL**—Practically all plants like rich, sandy loam, but other types of soil will also produce very satisfactory flowers. Bear in mind, however, that heavy soils need applications of fibrous materials and must be thoroughly broken and cultivated. Sandy soils usually need fertilizers.

**PREPARATION**—This is one of the most important factors in gardening. Work the soil deeply and make the top, for three or four inches, as fine and loose as possible. If the soil needs fertilizers, and most soils do, consult your local SQUARE BRAND Seed Dealer, or write us and we shall be glad to recommend that best suited to your needs, if you will tell us the kind of soil you have.

**PLANTING**—Many gardeners err in their method of planting, resulting in weak plants which soon die, or fail to produce the results desired. In addition to the preparation of the soil, it is necessary

that care be used to see that the seeds are placed the proper depth. Many small seeds can have only the smallest amount of soil above them; others of the larger varieties may be planted one or more inches below the soil. Be sure, also, to plant when heat and moisture conditions are correct. A study of the seed is necessary to determine that—and again your seedsman or we shall be happy to be of assistance to you. Moisture should be within your control—especially for flowers. To retain moisture after planting, cover the seed immediately with fine, freshly prepared earth and press it down firmly and smoothly.

**CULTIVATION**—It is desirable to stir the surface soil during the period of growth, since it encourages root development, allows air to enter and by forming a mulch, preserves moisture—in addition to killing weeds. Cultivation may be deep at first, but as the plants grow, it should be shallower, since otherwise it might injure the root system.

Our flower seeds are put up in our own lithographed packets, with full cultural directions on the back of each packet. They are usually classed under one of the following three types:

**Annuals**—Plants living just one season.

**Biennials**—Plants which bloom the second year, and then die.

**Perennials**—Plants which bloom the second year and live and bloom several years.

Biennials and Perennials are usually planted in the late summer and fall, blooming the next summer.

### Acroclinium (Everlasting)

Half hardy annual, about 15 inches tall. This straw flower is very useful for fresh cut blooms and for winter bouquets. The handsome double daisy-like flowers, about one-inch across, borne singly on long stems, are at first inclined and later stand erect. For use as everlastings cut when only partly expanded.

**DOUBLE MIXED**—Prices: Pkt. 10c; oz. 50c; postpaid.

### Ageratum (Floss Flower)

A beautiful, hardy annual of neat, bushy habit. The attractive feathery flowers, borne in dense clusters, are very useful for bouquets. Very desirable for outdoor bedding and borders, being covered with bloom nearly all summer.

**BLUE PERFECTION**—Light blue, about two feet high. Prices: Pkt. 10c; oz. \$1.00; postpaid.

**IMPERIAL WHITE**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

**MIXED**—Very desirable for borders. Prices: Pkt. 10c; oz. 75c; postpaid.

### Alyssum

The annual varieties can be grown very readily either outdoors or in the house and by cutting back the plants properly an almost constant succession of bloom may be had. Seed can be sown outdoors in fall.

**SWEET**—This very hardy annual for border-edging or massing in small beds, comes into bloom early in the spring, covering itself with clusters of small, pure white cruciform flowers. They have a peculiar, delicate fragrance and are most useful in small bouquets. Usually not over eight inches high, but spreading. Prices: Pkt. 10c; oz. 35c; postpaid.

**LITTLE GEM**—A beautiful white sort for edging, borders and rock work. The plants grow about six inches high, produce hundreds of flowers and form a compact mass of bloom usually fifteen to eighteen inches across. Prices: Pkt. 10c; oz. 60c; postpaid.

### Amaranthus

These plants afford brilliant contrasts of color, being useful for tall borders, groups and foliage effects. The leaves and stems are of different shades of red, blended usually with green; two to three feet high.

**CAUDATUS (Love Lies Bleeding)**—A rapid-growing annual with long, drooping crimson flower spikes. Height about 3 feet. Prices: Pkt. 10c; oz. 30c; postpaid.

### (Antirrhinum) Snapdragon (Large-Flowering)

This border and bedding plant of long-blooming season is one of the most popular annuals. The long showy spikes of curiously-shaped tubular flowers with spreading lobes and finely-marked throats are fragrant as well as brilliantly colored. They are very desirable for cutting as the spikes of bloom are borne well above the dark glossy leaves and keep fresh for a long time.

The seed may be sown in the fall or spring but where the winters are severe the gardener who wants early flowers should start the seed quite early under glass and transplant to a sunny situation as soon as the ground is warm.

**TALL-GROWING VARIETIES**—Produce long, graceful spikes of flowers which are unsurpassed for cutting. Plants about two and one-half feet high.

**SCARLET**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

**PURE WHITE**—Pkt. 10c; oz. \$1.00; postpaid.

**ROSE-PINK**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

**YELLOW**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

**MIXED COLORS**—Prices: Pkt. 10c; oz. 75c; postpaid.

**SEMI-DWARF VARIETIES**—

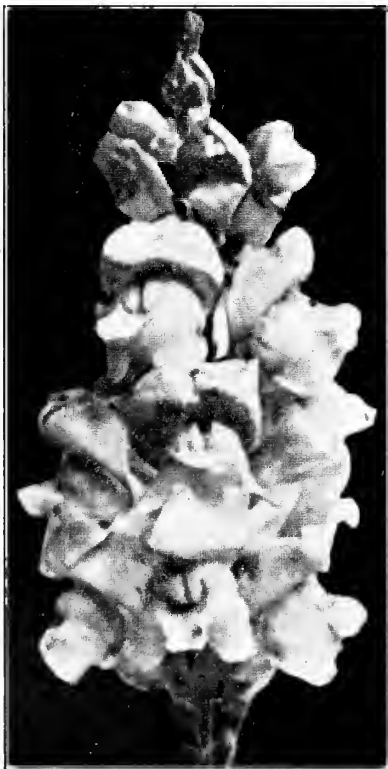
**ORANGE SCARLET**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

**LILACY MAUVE**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

**MIXED COLORS**—Prices: Pkt. 10c; oz. 75c; postpaid.



Ageratum.



Antirrhinum.

#### SWEET PEAS

Made money for this customer. Read what she says: "I sold \$50.00 worth of Sweet Peas from \$3.00 worth of seed last fall. I want to double that this fall." — Mrs. H. L. Ruark, 7827 Park Place Blvd., Houston, Tex.

## Asters

Finer types and larger flowers have made the Aster become one of the most important of the annual flowers. It is equally desirable for cutting and bedding and embraces a wide range in size, color, form and season of blooming. For early blooming, seed should be started indoors or in hotbeds.

**LIGHT BLUE**—Prices: Pkt. 10c; oz. \$1.25; postpaid.

**PINK**—Prices: Pkt. 10c; oz. \$1.25; postpaid.

**ROSE**—Prices: Pkt. 10c; oz. \$1.25; postpaid.

**WHITE**—Prices: Pkt. 10c; oz. \$1.25; postpaid.

**FINEST MIXED**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

## Double Balsam (Lady Slipper)

The brilliantly-colored double rose-like flowers of this well-known border and hedging annual are thickly set along the branches of the erect, bushy plants. The dainty individual flowers, often two inches across, are borne on very short stems and when cut they show to best advantage floating in a dish of water. The colors range from white to dark purple, and are either self-colored or spotted and striped.

**ROSE-FLOWERED (Mixed)**—About two feet high. Prices: Pkt. 10c; oz. 60c; postpaid.

## Balsam Pear

Known to the Chinese as La-Kwa, for the edible pulpy arils surrounding the seed, also for the edible fruit itself, which is prepared, usually by boiling, before it is ripe. Vine grows 10 feet or more. The fruit is pear-shaped. Prices: Pkt. 10c; oz. 50c; postpaid.

## Calendula (Pot Marigold)

A well-known, old-fashioned annual that has long been in favor. During the past few years they have greatly increased in popularity and are now largely used by florists for cut flowers.

They are of easy culture, succeeding in almost any soil and are in bloom from early summer till frost. Plants are one and one-half to two feet high.

**ORANGE KING**—Prices: Pkt. 10c; oz. 40c; postpaid.

**LEMON QUEEN**—Prices: Pkt. 10c; oz. 40c; postpaid.

**DOUBLE MIXED**—Prices: Pkt. 10c; oz. 30c; postpaid.



Aster.

## Candytuft (Umbellata)

Low bushy plants of fine habit. Their blooming period lasts several weeks. Plenty of sunshine and only a moderate amount of watering are conditions that favor their best development.

Their terminal clusters of cruciform flowers have rather broad tops which are liberally sprinkled with flat tight clusters of small florets. Desirable for massing in beds and for picking. A hardy annual.

**FINEST DOUBLE MIXED**—Prices: Pkt. 10c; oz. 40c; postpaid.

## Cardinal Climber (Ipomoea Quamoclit Hybrida)

A rapid-growing annual climber which if planted in a warm, sunny situation will attain a height of twenty feet in a season. The flowers resemble those of Cypress Vine but are larger and more showy. The foliage is quite dense and the leaves lacinated. Prices: Pkt. 15c; oz. \$1.25; postpaid.

## Carnation (Dianthus Caryophyllus)

"Carnation," "Pink," "Clove Pink," "Florists' Pink," are names applied by different people to the same or to different plants of several species as well as to hybrids between them. They are all easily grown from seed and very free-blooming, the flowers being bright colored and with a most delicious clove-like fragrance. The improved varieties we offer are suitable for cutting. They produce very double, semi-circular blooms with thick wax-like petals and long pod-like calyx. The plants are branching but compact and erect, with slender bluish-green foliage. For larger flowers of better quality remove all but terminal buds. Half-hardy perennial, usually treated as biennial.

**MARGUERITE DOUBLE MIXED**—Prices: Pkt. 10c; oz. \$1.25; postpaid.

## Castor Bean (Ricinus)

growth makes it very attractive for a long distance either grown singly or in groups, or as center plants with Cannas, Dahlias, etc., giving a semi-tropical effect. Tender annual; six to fifteen feet high.

**MIXED**—Prices: Pkt. 10c; oz. 25c; 1/4 oz. 75c; postpaid.

## Celosia (Cockscomb)

An odd and picturesque class of plants having colored foliage and in which the innumerable small flowers and seed vessels together with their supports form a very brilliantly colored mass, sometimes gracefully arranged like plumes and sometimes more dense, being corrugated and frilled at the edge like a cock's comb. They form the gayest possible decoration in beds and borders, retaining their brilliant coloring often from midsummer until frost. Hardy annuals.

**FINEST MIXED**—A mixture of the best growing sorts. Prices: Pkt. 10c; oz. \$1.00; postpaid.

**GLASGOW PRIZE (President Thiers)**

—Plant resembles a very large comb, densely corrugated; brilliant, deep purplish-red; foliage dark, not abundant; ten to twelve inches. Prices: Pkt. 10c; oz. \$1.50; postpaid.

## Centaurea (Bachelor Button or Cornflower)

These well known flowers are among the most attractive and graceful of the old-fashioned garden annuals. They are of easy culture but will amply repay any care or attention given them.

**CYANUS, FINEST MIXED**—Also known as "Bachelor Button," "Blue Bottle" and "Ragged Sailor." Will produce a profusion of very attractive flowers over a long season. Prices: Pkt. 10c; oz. 40c; postpaid. **CYANUS, DOUBLE BLUE**—Prices: Pkt. 10c; oz. 40c; postpaid.



Candytuft.

Tall majestic plants for lawns or driveways: with broad, beautifully lobed, palm-like leaves of glossy green, brown or bronzed metallic hue and long spikes of scarlet, or of green, prickly seed pods. Makes a rapid, vigorous growth in rich soil. For best development, each plant should have at least four feet each. Its rich, luxuriant



Centaurea Cyanus (Cornflower).



Calendula.



Chrysanthemums.

### Cosmos

Very effective for autumn flowering in broad masses or backgrounds. A hardy and rapid growing annual, forming bush-like plants with feathery green foliage, four to six feet high, covered with large flowers somewhat resembling the single Dahlia. They are gracefully poised on long stems and very useful for decorative purposes.

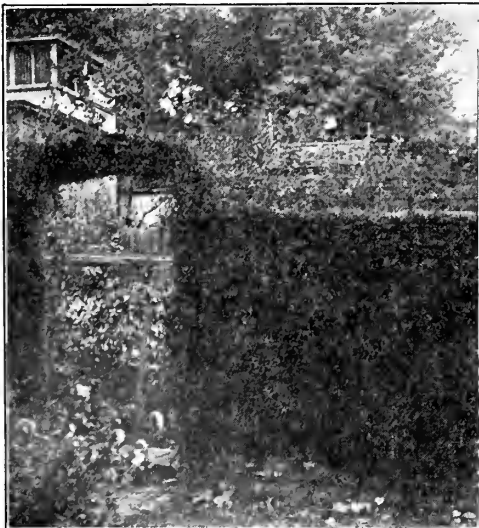
**KLONDIKE**—Golden-yellow flowers borne on long stems. Prices: Pkt. 10c; oz. \$1.00; postpaid.

**MIXED (Giant Single)**—Prices: Pkt. 10c; oz. 75c; postpaid.

### Cypress Vine (Ipomoea Quamoclit)

A most beautiful rapid-growing climber with delicate dark green, feathery foliage and many bright, star-shaped, scarlet or white blossoms. Planted by the side of veranda, tree or stakes, and trained properly, there is no handsomer climber. A hardy annuals. Prices—Postpaid—Pkt. Oz.

RED .....	\$ .10	\$ .50
SCARLET .....	.10	.50
WHITE .....	.10	.50
MIXED .....	.10	.50



Cypress Vine.

### Chrysanthemums

These outdoor "summer Chrysanthemums" are showy and effective for bedding or borders in the garden and desirable for cut flowers. Plants become more bushy and shapely if pinched back in early growth and the practice of disbudding will result in much larger flowers. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots.

**MIXED (Single)**—Pkt. 10c; oz. 40c; postpaid.

**MIXED (Double)**—Pkt. 10c; oz. 40c; postpaid.

**DOUBLE YELLOW**—Pkt. 10c; oz. 50c; postpaid.

**DOUBLE WHITE**—Pkt. 10c; oz. 50c; postpaid.

### Coleus

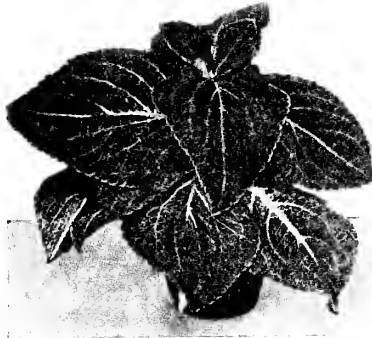
There are no finer decorative foliage plants for the South than our fine Hybrid Coleus; easily raised from seed. For beds, edging and porch or window boxes, Coleus make magnificent ornamental foliage plants. Our mixture of seed of Coleus is saved from some of the finest exhibition plants and contains all the best fancy striped and blotched-leaved kinds. The leaves are of many shapes and shades and colors are of remarkable beauty. They are tender perennials and perhaps the most showy plant we have.

**MIXED HYBRIDUS**—Prices: Pkt. 20c; 1/4 oz. \$1.50; postpaid.

### Columbine (Aquilegia)

Very desirable, easily grown, old-fashioned perennials for borders, forming large, permanent clumps. Blooms profusely early in the season and remains in bloom for a considerable period. Seed may also be sown outdoors in fall. Hardy herbaceous perennials; two to three feet high.

**SINGLE MIXED**—Prices: Pkt. 10c; oz. \$1.00; postpaid.



Coleus.



Cosmos.

### Dahlias

(See Illustrations—Page 34)

A favorite for autumn flowering, blooming the first season from seed if started early indoors, and transplanted after danger of frost is over. Usually grown from tubers. The flowers are so symmetrical and perfect and the range of colors so wide and varied that they will always be popular where display is wanted.

These plants will produce tubers which should be taken up in the fall and replanted the following spring. Tender herbaceous perennial, three to four feet high.

**SINGLE MIXED**—Prices: Pkt. 10c; oz. \$1.25; postpaid.

**FINEST DOUBLE MIXED**—Seeds saved from choicest, double flowers, including shades of red, pink, dark maroon, yellow, white, etc. Prices: Pkt. 10c; oz. \$2.25; postpaid.

### Daisy (Bellis)

The true English Daisy, perfectly hardy and suited to cool, rather moist location. Blooms in shades of red and pink, also white, in earliest spring and late fall. Can be flowered through the winter if placed in boxes in pits or planted out in cold frames. Flowers very double. Plants spread rapidly in rich soil and last for years. They make the finest low borders and margins and are beautiful in clumps about the lawn. Grow 6 to 10 inches high. Hardy perennials.

**DOUBLE MIXED**—Pkt. 10c; oz. \$2.00; postpaid.

### Gardening Books

#### THE BOOK OF ANNUALS

By Alfred C. Hottes. Over 100 separate species described with complete directions for their care, culture and use. 182 pages with 155 illustrations.

Cloth \$1.50; postpaid, \$1.65.

#### ALL ABOUT FLOWERING BULBS

By T. A. Weston. The care, culture and flowering of all the common bulbs and roots and some of the uncommon bulbs. 186 pages, 8 color plates and 65 full-page halftones.

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By Alfred C. Hottes. Complete information for the owner of an average-sized home, on all phases of home gardening. 320 pages with 81 illustrations.

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English Daisy.



## Eschscholtzia (California Poppy)

The State flower of California, chosen because of its brilliant display and wonderful growth. This brilliant annual is very easily grown and does especially well throughout the South. It does not want to be transplanted, makes very showy borders and beds and also makes pretty cut flowers when cut in the bud stage. The plants will grow nicely and bloom profusely over a long season in any sunny location. The foliage is finely cut and blue-green in color, while the flowers are very shiny or satiny and various shades of yellow, orange and white. A hardy annual, which should be sown in the fall of the year.

**CRIMSON**—Pkt. 10c; oz. 40c; postpaid. **ROSE QUEEN**—Pkt. 10c; oz. 40c; postpaid.

**PINK**—Pkt. 10c; oz. 50c; postpaid. **YELLOW**—Pkt. 10c; oz. 40c; Postpaid.

**SINGLE MIXED**—Pkt. 10c; oz. 40c; postpaid.

## Four o'Clock (Marvel of Peru)

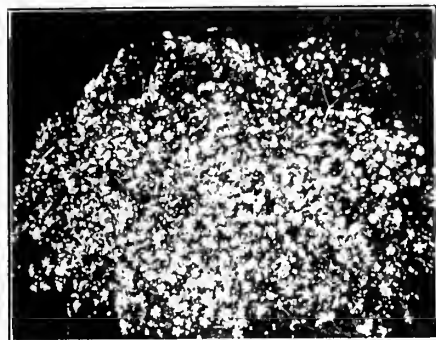
Showy, large free-flowering hardy annual adapted all over the South. A good old-fashioned plant with erect bushy habit and brilliant, salver shaped flowers that open about four o'clock in the afternoon and usually close by noon of the next day. They bear hundreds of white, yellow, red and violet colored flowers and some with spots, flakes and splotches of several colors. Fine for borders and backgrounds, growing about two feet high and blooming late in summer and fall.

**MIXED COLORS**—Prices: Pkt. 10c; oz. 25c; postpaid.

## Foxglove (Digitalis)

Stately old-fashioned border plants affording dense spikes of large brilliantly colored flowers which are terminal and half as long as the height of the plant. The flowers are very distinct and showy, being thimble-like or long bell-shaped, and the colors include white, lavender and rose, many being spotted or splotched. Often used as a background, and does especially well in cool, shady locations in front of shrubbery. A hardy perennial.

**FINEST MIXED**—Many shades and markings. Prices: Pkt. 10c; oz. 80c; postpaid.



Gypsophila.

Very interesting and peculiar trailing annuals, related to the Squash and Pumpkin. Most of the varieties have large, white blossoms and the vines are of such vigorous growth that they are very useful and ornamental for covering old fences and other unsightly objects. The fruits are much prized by children as toys.

**JAPANESE NEST EGG**—The fruits are similar in shape to a hen egg and are widely used by poultry keepers. We believe this variety produces the largest number of fruits of any variety of vine seed. Prices: Pkt. 10c; oz. 25c; 1/4 lb. 75c; postpaid.

**DIPPER**—A widely used variety growing in the shape of a dipper and often used for this purpose. When the fruits are thoroughly cured, the shells are very hard and horn-like. Prices: Pkt. 10c; oz. 25c; 1/4 lb. 75c; postpaid.

**PEAR**—As its name indicates, this gourd is pear-shaped and is alternately striped orange and green. It is very prolific. Prices: Pkt. 10c; oz. 20c; 1/4 lb. 50c; postpaid.

**MIXED**—This mixture contains a small amount of all the varieties listed above. In planting this, you will have an assortment of all shapes and sizes. Prices: Pkt. 10c; oz. 20c; 1/4 lb. 50c; postpaid.

## Gypsophila (Baby's Breath)

Delicate, free-flowering plants covered with star-shaped flowers, valuable for mist-like effect and as trimming in bouquets; also for hanging baskets or edgings. Will thrive in almost any well-prepared ground but does best on a limestone soil. Make handsome specimens dried.

**GRANDIFLORA ALBA**—An improved large-flowered strain, superior to the common Elegans. Prices: Pkt. 10c; oz. 40c; postpaid.

## Hibiscus (Marshmallow)

Grows 2 to 5 feet high, branching freely. Large flowers 3 to 5 inches across are white, yellow, carmine and striped. These can be grown in pots or tubs and kept blooming all winter as well as summer, anywhere the temperature is above 50 degrees. The flowers are extremely showy and single mixed shades.

**FINEST MIXED**—Prices: Pkt. 10c; oz. 75c; postpaid.

## Hollyhock (Althea Rosea)

Hardy Perennial. Our Double Hollyhocks are far superior to the old single and semi-double sorts. Once established they grow and bloom freely for years. The Hollyhock is an old-fashioned flower of our Southland and perhaps no other flower leaves such an impression of the old South. Beautiful long spikes filled with tissue paper-like blooms, 3 inches across, crushed closely together, give a beautiful and artistic background or tall border. There could hardly be an old-fashioned garden without them. Plant some this year and you will have them for years to come.

**DOUBLE MIXED**—Prices: Pkt. 10c; oz. \$1.50; postpaid.



Eschscholtzia.

## Gaillardia (Blanket Flower)

Well adapted to our section. It thrives in the poorest and driest soils, and the plants are covered with large showy flowers during the season. Plants are of strong, spreading growth, 18 inches in height. The large brilliant flowers are borne singly, on long stems, making attractive cut flowers but the chief use is for the blanket or great mass of blooms for borders, clumps or beds of purplish crimson and yellow shades. This is a hardy annual but will live through the winter with protection. It is one of our very best Southern flowers and easily grown. Splendid bedding, border and cut-flower.

**DOUBLE MIXED**—Gaily-colored flowers, double with tubular florets, invaluable for bouquets. Prices: Pkt. 10c; oz. 90c; postpaid.

## Geranium (Pelargonium)

Tender perennial, usually grown from cuttings. However, Geraniums grow readily from seed and bloom the first summer. They are interesting to grow from seed because in their development you may secure a worth-while new variety.

**ZONALE (Mixed)**—Prices: Pkt. 15c; 1/4 oz. 75c; postpaid.

## Globe Amaranth (Gomphrena)

One of the everlasting or straw flowers. A very vigorous and free-flowering plant with flowers resembling clover blossoms in form. Comes in purplish-red, white and striped colors. Masses well for bedding, growing eighteen to twenty-four inches high. Desirable for winter bouquets if cut when in full bloom and dried in a cool, shady place. Should be hung up by stems to keep their natural shape. A hardy annual.

**MIXED**—Prices: Pkt. 10c; oz. 40c; postpaid.

## Gourds

**APPLE**—The fruits are small, round and white in color, about the size of a large apple. Prices: Pkt. 10c; oz. 25c; 1/4 lb. 75c; postpaid.

**CALABASH**—Its chief use is for making Calabash pipes, the stem end being used for this purpose. The fruits are cream-colored. Prices: Pkt. 10c; oz. 25c; 1/4 lb. 75c; postpaid.

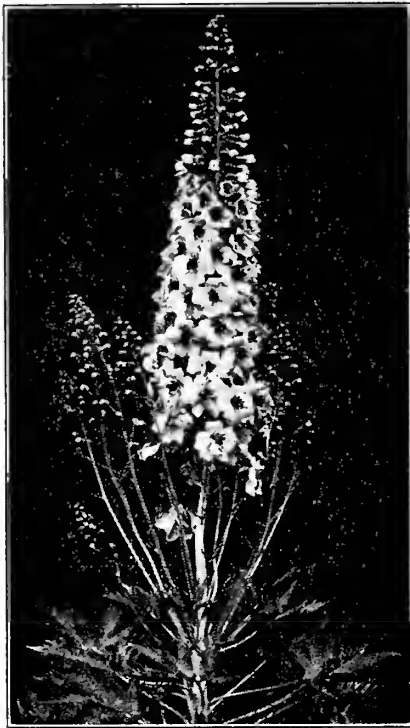
**HERCULES CLUB**—The fruits are extremely long and large, and while they are cylindrical, they taper to the stem end. It is not unusual for this variety to grow 3 and 4 feet in length, and when thoroughly dry the fruits are amazingly light in weight. Although this variety is a novelty, the vines are very thrifty and rapid climbers. Prices: Pkt. 10c; oz. 25c; 1/4 lb. 75c; postpaid.



Geranium.



Hollyhock.



Delphinium (Larkspur).

The Larkspur with its long-clustered spikes of beautiful irregular flowers, often with long spurs, is especially valuable for its shades of blue. The annual forms are splendid for bedding. Colors range from white, through pastel shades of blue, lavender and pink to brilliant hues. Bloom from early summer, through fall. Most desirable for cutting.

	Prices—Postpaid—Pkt.	Oz.
STOCK FLOWERED TALL DOUBLE BLUE.....	\$ .10	.75
STOCK FLOWERED TALL DOUBLE LILAC.....	.10	.75
STOCK FLOWERED TALL DOUBLE LAVENDER.....	.10	.75
STOCK FLOWERED TALL DOUBLE FLESH.....	.10	.75

### Lupins

A very attractive free-flowering plant with long graceful terminal spikes of fragrant pea-shaped blossoms. Very much like the Texas Blue Bonnet. Blooms early in the season and is desirable for cutting. Hardy annual.

MIXED—Prices: Pkt. 10c; oz. 40c; postpaid.

### Marigolds

No flower garden seems complete without this fine old-fashioned garden plant, with its brilliant displays of yellow and orange, both tall and dwarf sorts, and with finely-cut or entire bright green foliage. The African varieties are tall, usually one and one-half to three feet, and are well adapted for large beds, backgrounds or mixed borders, while the French are more dwarf and are often used for borders and pot culture as well as bedding. Hardy annuals; in bloom till frost comes.



Lupins.

TALL DOUBLE AFRICAN, MIXED—Pkt. 10c; oz. 65c; postpaid.

DWARF DOUBLE AFRICAN, MIXED—Pkt. 10c; oz. 65c; postpaid.

TALL DOUBLE FRENCH, MIXED—Pkt. 10c; oz. 50c; postpaid.

DWARF DOUBLE FRENCH, MIXED—Pkt. 10c; oz. 50c; postpaid.

### Mignonette (Reseda)

A well-known hardy annual producing dense cone-shaped flower-spikes, made up of thickly set florets of modest colors. It is often used for cutting to combine in bouquets with other more pretentious flowers lacking its delicate and pleasing fragrance. Thrives best in a cool temperature and is usually most fragrant in rather light soil. Hardy annual; one foot high.

MACHET—Of dwarf and vigorous growth, with numerous stout flower stalks, terminated by large spikes of flowers. Pkt. 10c; oz. 50c; postpaid.

### Hyacinth Bean (Jack Bean)

A fine climber with clusters of purple or white flowers followed by ornamental seed pods. Hardy annual; from ten to fifteen feet high.

WHITE—Prices: Pkt. 10c; oz. 25c; postpaid.

MIXED—Prices: Pkt. 10c; oz. 25c; postpaid.

### Ice Plant

A curious plant for hanging baskets, rock-work, vases and edgings; leaves and stems succulent, appearing as though covered with ice crystals. Hardy annual trailer. Prices: Pkt. 10c; oz. 60c; postpaid.

### Kochia (Mexican Fire Bush)

An easily grown foliage or hedge plant which makes a very rapid growth and retains its clean, bright green color until heavy frost. Turns to beautiful bronze-red after heavy frost and blends with the colors of autumn.

Prices: Pkt. 10c; oz. 35c; postpaid.

### Kudzu (Jack and the Bean Stalk)

Probably the most rapid-growing vine in cultivation. Grows eight to ten feet the first season from seed, and from forty to sixty feet in a single season after becoming established. Makes a dense growth of foliage and is valuable for covering verandas, pergolas and unsightly places. Will thrive on any land that will support vegetable growth. Hardy perennial climber. It is advisable to soak seed before planting. Prices: Pkt. 10c; oz. 50c; postpaid.

### Lantana

A tender perennial shrub that makes a splendid display the first season from seed. Above the large green leaves rise, in prolonged succession, Verbena-like clusters of fragrant flowers in shades of crimson, rose, orange and yellow. These are followed by green berries that turn later to a deep blue. Valuable for bedding and also adapted to pot culture.

FINEST MIXED—Prices: Pkt. 10c; oz. 60c; postpaid.

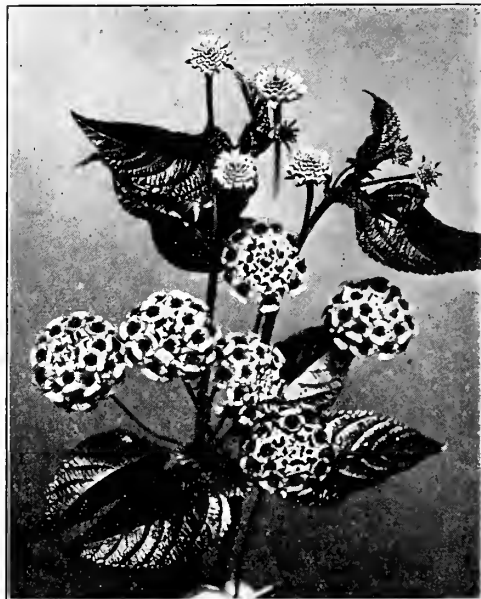
### Larkspur (Delphinium)

	Prices—Postpaid—Pkt.	Oz.
STOCK FLOWERED TALL DOUBLE SCARLET ROSE...	.10	.75
STOCK FLOWERED TALL DOUBLE PURPLE.....	.10	.75
STOCK FLOWERED TALL DOUBLE MIXED.....	.10	.50
*GIANT HYACINTH FLOWERED BRICK RED.....	.10	.75
*GIANT HYACINTH FLOWERED EMPEROR ROSE...	.10	.75
*GIANT HYACINTH FLOWERED MIXED.....	.10	.50
DWARF ROCKET MIXED.....	.10	.50

\*Hyacinth Flowered Larkspur produce single, large, tapering spikes, closely packed with double blossoms.

### Lathyrus, Latifolius

(Perennial Sweet Peas)—See Sweet Peas.



Lantana.

### Moon Flower (Ipomoea)

One of the most vigorous summer climbers. Will grow under favorable conditions thirty to forty feet in a single season and be covered evening and cloudy days with very large flowers, widely extended, often four inches across. Leaves large, frequently four to five inches across.

**GRANDIFLORA ALBA (White)**—Prices: Pkt. 10c; oz. 50c; postpaid.

**BONA NOX (Blue)**—Prices: Pkt. 10c; oz. 50c; postpaid.

### Morning Glory

A handsome showy climber of easy culture and suitable for covering arbors, windows, trellises, old stumps, etc. The flowers are most brilliant in the morning. Hardy annual.

**JAPANESE, GIANT MIXED**—Prices: Pkt. 10c; oz. 50c; postpaid.

**HEAVENLY BLUE**—Prices: Pkt. 10c; oz. 60c; postpaid.

### Mourning Bride (Scabiosa)

An old-fashioned but most attractive flower. Its great abundance and long succession of richly colored, fragrant blossoms on long stems make it one of the most useful decorative plants of the garden. Desirable for cutting as well as for beds and borders. Flower heads about two inches across; florets double, surrounding the thimble-shaped cone, and giving a fancied resemblance to a pinecushion. A hardy annual.

**TALL DOUBLE MIXED**—Colors include deep and light purple, scarlet, pure white and dark mulberry-red. Prices: Pkt. 10c; oz. 50c; postpaid.

### Nasturtiums

Few plants are more easily grown or remain longer in bloom. Large shield-shaped leaves and beautifully irregular flowers having long spurs and brilliantly-colored petals. In favorable soil, flowers are produced in abundance throughout the season. Much used for window boxes. Half-hardy annual.

**DWARF MIXED**—Many desirable shades and colors. Prices: Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

**TALL MIXED**—A wide range of colors and shades. Prices: Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25; postpaid.

### Petunias

Petunias are very popular in the South; easily grown, and make most beautiful flower beds of showy colors. No garden is complete without them. They are hardy annuals; heat, rain, drought do not affect them.

We want to call your attention especially to the named sorts for solid colored beds or window and porch boxes. These are the best bush or dwarf varieties and produce their handsome, sweet-scented flowers in their delicate and gorgeous colors throughout the whole summer and can be cut back and transplanted in pots or boxes to take indoors during the winter. Our Ruffled Giants and Double Petunias are selected from the finest and largest of the new creations by the greatest hybridizers. They are the very best grown.

**GENERAL DODD'S PINK**—Prices: Pkt. 10c; oz. \$1.25; postpaid.

**ROSY MORN**—Prices: Pkt. 10c; ¼ oz. \$1.00; postpaid.

**HYBRIDA ALBA**—Prices: Pkt. 10c; oz. \$1.25; postpaid.

**HYBRIDA, MIXED**—Includes striped or blotched flowers in a wide range of brilliant colors. A fine bedder. Prices: Pkt. 10c; oz. \$1.25; postpaid.

**SINGLE, MIXED**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

**RUFFLED GIANTS**—Prices: Pkt. 25c; postpaid.

**DOUBLE, MIXED**—Prices: Pkt. 35c; postpaid.



Giant Ruffled Petunia.



Nasturtiums.



Pansy.

### Pansies

Pansies have long been a very popular favorite with flower lovers and they make delightful beds where a little care is taken with them. For proper results, you must start with a good strain of good seeds. The finest Pansies are shy seeders, as a rule, and that accounts for the difference in price of the different types. Hardy annual.

**TRIMARDEAU, MIXED**—All colors. Prices: Pkt. 10c; ½ oz. \$1.25; postpaid.

**GIANT, MIXED**—A grand mixture of the finest varieties. Prices: Pkt. 25c; postpaid.

### Pinks (Dianthus)

The Pinks are old-fashioned favorites and as a class are more varied in color than the Carnations but lack their fragrance. The Double Pinks are well adapted for bedding and borders, and are suitable also for cutting as the stems are of good length and the brilliantly-colored flowers often one and one-half to two inches across, contrast vividly with the rather narrow bright light green leaves. The Pinks are annuals and not perennials like the Carnation.

Plants compact, bushy, usually about one foot high.

**CHINESE DOUBLE MIXED**—Prices: Pkt. 10c; oz. 75c; postpaid.

**SINGLE MIXED**—Prices: Pkt. 10c; oz. 60c; postpaid.

### Phlox Drummondii

The easiest grown of all the annual flowers in the South and one of the very best. Unequaled in the magnificent display of their many and brilliantly-colored flowers.

Plants are hardy, bushy annuals, growing about one foot high, and are particularly attractive in large masses or clumps and ribbon beds of striking or contrasting colors. They are also useful for boxes and make splendid cut flowers.

Our varieties are noteworthy for brilliance of colors and large size. Prices postpaid.

**PINK**—Pkt. 10c; oz. \$1.25.

**RED**—Pkt. 10c; oz. \$1.25.

**MIXED**—Pkt. 10c; oz. \$1.00.

**PERENNIAL MIXED**—Pkt. 10c; ¼ oz. \$1.00.

Your flowers will be much more beautiful if they are fed, regularly, those elements needed for their foliage and flowers.

We recommend

**VIGORO**  
Specially prepared plant food



Phlox.



Peony Flowered Poppy.

### Salvia (Flowering Sage)

Among the most brilliantly colored of garden flowers and extremely useful for bedding; also valuable for pot culture and cutting. Blooms are borne in long spikes well above the foliage and are fiery-red, continuing in flower a long time. The densely-filled flower spikes are often eight to ten inches long and include thirty or more tube-like florets, one to two inches in length. Tender perennial, but blooms the first season; height one and one-half to three feet.

**SPLENDENS**—Prices: Pkt. 10c; oz. \$2.25; postpaid.

### Sweet Peas

No garden is complete without this popular annual. Planted in the fall of the year, and carefully watered and fed, this plant will yield a continuous supply of sweet-scented flowers throughout the spring, summer and early fall. Charming for use in bouquets, for table decorations and anywhere that fragrant flowers are desired.

There are three types of annuals—two of which are enjoying the major popularity. The Grandiflora, or large-flowering type, is the old-fashioned type, the first known. Of course it has been much improved and it retains considerable popularity because of its freedom of bloom and wide range of colors.

The Late Spencers, the next oldest type, are the most popular. They are of exceptionally large size;

### Poppy (Papaver)

These well-known flowers are much favored everywhere. They just naturally do well and bloom profusely in the South. The single and double varieties are equally desirable for beds, masses and borders. The flowers are noted for their large size, delicacy of tissue and their wide range of bright, dazzling colors.

Cut the flowers regularly, not allowing seed pods to form, to insure continuous blooming over a long season. Hardy annuals.

Prices—Postpaid		
	Pkt.	Oz.
DOUBLE PEONY (Flowered), Red.....	\$ .10	\$ .40
DOUBLE PEONY (Flowered), Pink.....	.10	.40
DOUBLE PEONY (Flowered), Mixed.....	.10	.40
CARNATION (Flowered), Red.....	.10	.40
AMERICAN LEGION SHIRLEY (Single), Red.....	.10	.60
SINGLE SHIRLEY, Mixed.....	.10	.40

### Portulaca

Also called Moss Rose. Few flowers make such a dazzling display of color in the bright sunshine as a bed of Portulacas. The glossy cup-shaped single flowers and rose-like double flowers, about one-inch across, range through many shades of red, white, pink, orange, yellow, striped, etc. Plants low-growing or creeping with thick, fleshy stems tinged with red and small quill-shaped leaves. Desirable also for edgings. They are in bloom through a long season. Hardy annual; about nine inches high. **FINEST SINGLE MIXED**—A wide range of colors. Prices: Pkt. 10c; oz. 75c; postpaid. **DOUBLE MIXED**—Many beautiful shades. Prices: Pkt. 10c; oz. \$2.25; postpaid.



Shasta Daisy.

### Vinca (Periwinkle)

Very free-flowering bedding plant adapted to the entire South. It produces handsome round, single flowers and luxuriant foliage of dark green, suitable for pots, boxes, beds and borders. It is a tender perennial but is treated as an annual. Grows fifteen inches high and is free from all insect attacks; flowers white and rosy-pink and many with crimson-pink eyes.

**PURE WHITE**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

**ROSEA**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

**MIXED**—Prices: Pkt. 10c; oz. \$1.00; postpaid.

### Shasta Daisy

Splendid perennial plants bearing large single white flowers with yellow centers. The flowers are borne on long stems and are excellent for cutting. The plants produce an abundance of bloom, making them very desirable for the hardy border. Especially pleasing in bouquets. A hardy perennial. Prices: Pkt. 10c; oz. \$2.25; postpaid.

### SPENCER LATE (OR ORCHID FLOWERED) VARIETIES:

Prices—Postpaid		
	Pkt.	Oz. 1/4 Lb.
Alexander Malcolm—Bright scarlet-cerise.	\$ .10	\$ .25 \$2.50
Barbara—Salmon.....	.10	.25 2.50
Charity—Scarlet-crimson.....	.10	.25 2.50
Commander Goddall—Large violet-blue.....	.10	.25 2.50
Countess Spencer—Rose-pink.....	.10	.25 2.50
Lord Nelson—Navy-blue.....	.10	.25 2.50
Orchid Improved—Lavender.....	.10	.25 2.50
Royal Purple—Rich purple.....	.10	.25 2.50
Warrior Giant—Maroon.....	.10	.25 2.50
White Queen—Pure white.....	.10	.25 2.50
Spencer Late—Mixed.....	.10	.25 2.50
Grandiflora—Mixed.....	.10	.15 1.25

### SPENCER EARLY FLOWERING VARIETIES:

Prices—Postpaid		
	Pkt.	Oz. 1/4 Lb.
Harmony—Lavender.....	\$ .10	\$ .50 \$1.75
Snowstorm—Pure white.....	.10	.50 1.75
Giant Rose—Rose-pink.....	.10	.50 1.75
Blue Bird—Violet blue.....	.10	.50 1.75
Spencer Early, Mixed.....	.10	.50 1.75

### Perennial S. Pea (Lathyrus Latifolius)

A sturdy vine with luxuriant pea-like foliage, with pea-shaped flowers borne in large clusters of 8 or 10 each, and are of a waxy appearance. They bloom for a long period.

**MIXED COLORS**—Prices: Pkt. 10c; oz. 60c; postpaid.

### Texas Blue Bonnet

This is the Texas state flower. Grows wild all over the prairies of central and south Texas. Plants grow to 12 inches high and are covered with beautiful dark blue flowers tinged with white. They grow on poor as well as on rich soil. They bloom in Texas in March, April and May. After maturing seed, the plant dies and the seed falls on the ground and comes up again the next spring. If you want a bed of beautiful blue flowers in the early spring, be sure and plant some of the Texas Blue Bonnet. Prices: Pkt. 10c; oz. 35c; 1/4 lb. 75c; lb. \$2.50; postpaid.



Sweet Pea.



Vinca (Periwinkle)



Lilliputian



### Sweet William (*Dianthus Barbatus*)

A well-known, extensively used, sweet-scented perennial for bedding and borders, forming fine clumps in any good garden soil and under proper conditions lasting for several seasons. They produce a succession of flower clusters, thus affording splendid bloom for several weeks. The florets are handsomely colored and marked and are borne on stiff stems in great profusion, forming dense round topped heads or clusters, often three to four inches across. The colors are exceedingly varied, ranging from white through many shades of rose, lilac red, carmine, crimson and maroon to nearly black, usually two shades to each plant. **Finest Double Mixed** Prices: Pkt. 10c; oz. 90c; postpaid.

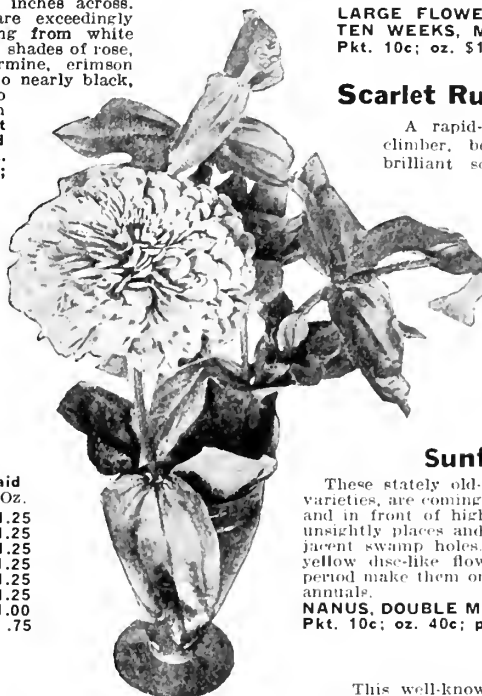
### Zinnias

No other annual enjoys the popularity of the Zinnia. It produces the most brilliant, showy and satisfactory flower, with an enormous range of colors. Cut flowers last from ten days to two weeks in water. The plants withstand lots of heat and thrive splendidly in sunny locations. No garden is complete without a display of these flowers.

**SQUARE BRAND GIANT ZINNIAS** are magnificent. They bear huge flat double flowers, often measuring six inches in diameter when in full bloom.

#### IMPROVED GRANDIFLORA ROBUSTA VARIETIES:

	Prices—Postpaid		
	Pkt. ½ Oz.	Oz.	
Giant Double Red.....	\$ .10	\$ .70	\$ 1.25
Giant Double Orange.....	.10	.70	1.25
Giant Double Pink.....	.10	.70	1.25
Giant Double Purple.....	.10	.70	1.25
Giant Double Yellow.....	.10	.70	1.25
Giant Double White.....	.10	.70	1.25
Giant Double Mixed.....	.10	.60	1.00
Square Brand Giant Double Mixed.	.10	.45	.75



Dahlia Flowered Zinnia.

### Double Dahlia Flowered Zinnias

Produce beautiful large double flowers of the dahlia type, similar to the decorative dahlia. They are most pleasing, and the varieties given below represent the best types to be had (All except mixed):

	Prices—Postpaid		
	Pkt. ½ Oz.	Oz.	
EXQUISITE—Rose-pink.....	\$ .20	\$ 1.35	\$ 2.50
PURPLE PRINCE—A fine deep purple.....	.20	1.35	2.50
GOLDEN STATE—Orange-yellow....	.20	1.35	2.50
ORIOLE—Orange.....	.20	1.35	2.50
ILLUMINATION—Bright pink.....	.20	1.35	2.50
CRIMSON MONARCH—Largest Red	.20	1.35	2.50
DREAM—Lavender.....	.20	1.35	2.50
POLAR BEAR—White.....	.20	1.35	2.50
DOUBLE DAHLIA (Flowered), Mixed.....	.15	.90	1.65

### Cactus Flowered Zinnias

If you like the cactus type dahlia, you will be immensely pleased with these unusual Zinnias.

**CACTUS FLOWERED MIXED**—Prices: Pkt. 15c; ½ oz. 90c; oz. \$1.70; postpaid.

### Double Lilliput Zinnias

A most charming dwarf type, used principally for borders and beds. They are of bushy habit and produce large quantities of very double pompon flowers about 1½ inches in size. Colors are very bright and well varied. This is a hardy annual that can be depended upon.

	Prices—Postpaid—Pkt.	½ Oz.	Oz.
SCARLET GEM—Scarlet red.....	\$ .10	\$ .60	\$ 1.00
SALMON ROSE—Lovely new shade	.10	.60	1.00
GOLDEN GEM—Golden orange....	.10	.60	1.00
MIXED COLORS.....	.10	.60	1.00

### Stock (Gilliflower)

Considered almost indispensable where a fine display of flowers is wanted and particularly valued for edgings, bedding and pot culture. The improved varieties we offer of this favorite garden plant produce dense spikes of very fragrant and beautiful rosette-like double flowers in wide range of attractive colors. They are suitable for cutting, being produced on stems of good length in pleasing contrast with the dark green foliage of the bushy plants. A hardy annual growing from twelve to eighteen inches high.

**LARGE FLOWERING DWARF TEN WEEKS, MIXED**—Prices: Pkt. 10c; oz. \$1.50; postpaid.

### Scarlet Runner Beans

A rapid-growing annual climber, bearing sprays of brilliant scarlet pea-shaped blossoms. Used either as a snap or shell bean for eating as well as being desirable for ornamental purposes. Vines ten to twelve feet high. Prices: Pkt. 5c; oz. 15c; ¼ lb. 25c; postpaid.



Stock.

### Sunflower

These stately old-fashioned flowers, with the newer improved varieties, are coming into special favor as a background for lawns and in front of high fences. Valuable also as a screen to hide unsightly places and sometimes used to mitigate the evil of adjacent swamp holes. Their very tall, dense growth and bright yellow disc-like flowers of very large size and long blooming period make them one of the most deserving and useful of hardy annuals.

**NANUS, DOUBLE MIXED**—Dwarf, double yellow flowers. Prices: Pkt. 10c; oz. 40c; postpaid.

### Verbena

This well-known annual of low-growing decumbent habit of growth is very desirable for massing in beds on the lawn. It is suitable also for borders and window boxes. A tender perennial.

**HYBRIDA, Red**—May be relied upon to produce the true, deep scarlet color. No variety gives a more brilliant effect when used as a bedding plant. Prices: Pkt. 10c; oz. \$1.25; postpaid.  
**HYBRIDA, Pink**—Prices: Pkt. 10c; oz. \$1.25; postpaid.  
**HYBRIDA, Purple**—Prices: Pkt. 10c; oz. \$1.25; postpaid.  
**HYBRIDA, Lavender**—Prices: Pkt. 10c; oz. \$1.25; postpaid.  
**HYBRIDA, White**—Prices: Pkt. 10c; oz. \$1.25; postpaid.  
**HYBRIDA, Fine Mixed**—Prices: Pkt. 10c; oz. \$1.00; postpaid.



Verbena.



winkle).



innias.



Mrs. J. T. Scheepers Dahlia.

## Large Flowering Cannas

Our cannas are perhaps the most showy of all flowers, and in addition among the most hardy. They multiply rapidly and the dwarf and tall varieties are equally popular.

NAMED VARIETIES:	Each	Postpaid Dozen	100
<b>HUNGARIA</b> —The best true pink, about 3 feet.....	\$ .15	\$1.35	\$7.50
<b>KING HUMBERT</b> —Bright orange-scarlet .....	.10	1.00	6.00
<b>YELLOW KING HUMBERT</b> —Rich yellow, blotched red.....	.10	1.00	6.00
<b>PRESIDENT</b> —Beautiful, vivid scarlet red.....	.15	1.35	7.50
<b>DWARF VARIETIES</b> —Pink red or yellow .....	.10	1.00	6.00

## Caladiums

More popularly known as "Elephant Ears", which aptly describes their huge, green leaves. They make a splendid background for other shrubbery and flowers. Small bulbs 20c; medium sized bulbs 25c; large bulbs 50c; postpaid.

## Tuberose

Our single Mexican tuberose grow very readily in the South. They have a most beautiful wax-like flower of heavy fragrance. Bulbs should be dug in the fall and separated before replanting in the spring. 2 for 15c; 50c per dozen; \$3.00 per 100; postpaid.



**ORDER  
EVER GREEN**  
to protect your flowers  
from insects

Prices:  
1 oz. \$ .35  
6 oz. 1.00  
16 oz. 2.00  
32 oz. 3.50  
1 gal. 11.50  
Postpaid

## Spring Planting Roots and Bulbs

Ready for Shipment the Latter Part of January.

### Dahlias

Dahlias gain in favor each year, and each year new and more charming varieties are available. They are easily raised and make the most magnificent display of brilliant colors, available in any flowers. Give them plenty of water during the growing season. Dig the roots in the fall and keep in a dry place during the winter—replanting in the spring.

Plant at least one of each of the following varieties:

	POSTPAID	
	Each	Dozen
<b>BLUE STOCKING</b> —Cactus Dahlia, the very best dark violet.....	\$ .25	\$2.50
<b>GEM OF BEAUTY</b> —Pompon, flesh edged pink .....	.25	2.50
<b>GENERAL BULLER</b> —Cactus, wine red, tipped white .....	.25	2.50
<b>JEAN KERR</b> —Ball decorative, best florist's white .....	.25	2.50
<b>JOPPA</b> —Semi-Cactus, massive salmon rose, apricot and gold.....	.30	3.00
<b>KING OF COMMERCE</b> —Decorative, unbeatable cut flower; tango and gold.....	.30	3.00
<b>LITTLE BEAUTY</b> —Pompon, soft rose-pink, crinkled petals .....	.25	2.50
<b>MRS. I. DEVER WARNER</b> —Decorative giant lavender .....	.20	2.00
<b>MRS. J. T. SCHEEPERS</b> —Decorative mammoth light chamois edged pink.....	.30	3.00
<b>PRIDE OF CALIFORNIA</b> —Decorative, large crimson red.....	.20	2.00
<b>QUEEN MARY</b> —Decorative, fine, true pink .....	.20	2.00
<b>YELLOW DUKE</b> —Decorative, pure, clear yellow .....	.20	2.00
<b>A FEW, GORGEOUS PRIZE WINNERS:</b>		
<b>BARBARA REDFERN</b> —Decorative, giant old rose and gold shades.....	1.00	
<b>GEISHA GIRL</b> —Decorative, giant deep orange, edge and tip gold.....	1.50	
<b>PRISCILLA</b> —Decorative, mammoth, very light orchid .....	1.00	
<b>RED STAR</b> —Semi-cactus, large, beautiful cardinal red.....	1.50	
<b>REGAL</b> —Decorative, giant bronze, suffused old rose.....	2.00	

## Lilies

BLOOMS FOR ALL SUMMER

### Border Lilies

**WHITE**—6 to 8 inches high. Bloom all during summer until frost. Multiply rapidly. Flower star-shaped. Not fragrant. Each 10c; 2 for 15c; 75c per doz.; postpaid.

**ROSE PINK**—Sometimes called Fairy Lilies. Very effective for massing or borders. About 8 inches high. Flowers in great profusion during entire spring and summer. Also suitable for pot culture. Each 25c; \$2.75 per doz.; postpaid.

**HYBRANTHUS**—Clusters of red flowers, 10 to 12 inches high. Foliage green all winter. Blooms in September. Does well in dense shade or full sun. Each 20c; \$2.00 per doz.; postpaid.

### Crinum Lilies

Good for brightening up dark corners. Very hardy and do not require any special cultivation. Will grow in partial shade or full sun. The following collection bloom at different periods during spring and summer, making them very valuable, especially to florists.

**PURE WHITE**—Blooms May, June and July. 8 to 9 beautiful blooms on a stalk at one time. Foliage about 2 feet tall.

**DELICATE SOLID PINK**—Blooms July until frost. Very hardy. Will grow in partial shade or full sun. Very beautiful.

**LAVENDER STRIPE ON WHITE GROUND**—Blooms July until frost. 8 to 9 blooms to stalk. Very striking.

**DEEP-SEA LILY**—Long trumpets, light pink stripe. Very fine.

Prices: Each 50c; \$5.00 per doz.; postpaid.

### Hemerocallis (Double Orange Day Lily)

Grass-like foliage, will grow in partial shade or full sun. Bloom all summer and are very handsome. Each 25c; \$2.50 per dozen; postpaid.



Tuberose.

## Gladiolus

Gladioli vie with dahlias for supreme flower popularity. They are especially desirable for cut flowers. Cut when the lowest flower is in bloom, the others will open in succession and remain fresh for a week or ten days, until the entire spike has bloomed. They are adaptable to most soils and like plenty of moisture and sunshine. We recommend digging in the fall, since cold winters frequently destroy the bulbs. The following varieties have proven to be especially desirable for the South:

	POSTPAID		
	Each	Dozen	100
AMERICA—Soft lavender pink.....	\$ .08	\$ .75	\$4.00
ALICE TIPLADY—Beautiful orange-saffron.....	.08	.75	4.00
JOE COLEMAN—Ruffled red, very handsome.....	.10	.85	5.00
DARK BLUE—No. 104, Midnight blue, early.....	.10	1.00	6.00
LE MARECHAL FOCH—Light pink, very early.....	.08	.75	4.00
HALLEY—Delicate salmon pink, very early.....	.08	.75	4.00
MRS. FRANCIS KING—Brilliant vermilion scarlet.....	.08	.75	4.00
PANAMA—Large rose pink, a favorite.....	.08	.75	4.00
E. J. SHAYLOR—Ruffled rose, gorgeous.....	.08	.75	4.00
SCARLET PRINCEPS—“Virginia”, massive spike, scarlet, throat deep scarlet.....	.08	.75	4.00
SOUVENIR—One of the best pure yellows.....	.08	.75	4.00

## Some Especially Interesting Prize Winners

	POSTPAID		
	Each	Dozen	100
LOS ANGELES—Beautiful geranium pink, two and three spikes to bulb, cut and come again.....	\$ .15	\$1.50	\$10.00
DR. F. E. BENNETT—Large peach red, overlaid with flame scarlet, throat speckled ruby and white.....	.20	1.65	12.00
MRS. LEON DOUGLAS—Large begonia rose flowers, striped with flame scarlet.....	.20	1.65	12.00

## Spring Plants

Many people prefer not to plant flower seeds, but rather to buy their plants already started, and for these we recommend the plants listed below. They have been very carefully grown, having in mind a strong, well-developed root system and we know from experience that they are extremely hardy and most satisfactory when transplanted to your permanent garden. See flower seed section for description of flowers. Ready for shipment February 1st.

	F. O. B. Dallas		
	Each	Dozen	100
AGERATUM—Mexicanum blue.....	\$ .10	\$ .75	
ANTIRRHINUM (Snapdragon)—Red, white, pink or yellow.....	.10	.75	
ASTERS—California giants, mixed colors.....	.05	.50	
BEGONIAS—Everblooming, cherry red blossoms.....	.50		
CALENDULA (Pot Marigold)—Yellow and gold flowers.....	.10	.75	
COCKSCOMB—Dark red flower-heads.....	.10	.75	
COLEUS—Hybrid; brilliant foliage plant.....	.10, .15, .25		
DAISY—Marguerita, similar to Shasta daisy, except smaller blooms.....	.05	.50	
FERNS, Maidenhair—Feather fern, Whitmanii (Ostrich plume fern) or Boston Fern.....	.20		
FOXGLOVE (Digitalis).....	.05	.50	
GERANIUMS—Always popular plants.....	.20 or .50		
HYDRANGEA—Beautiful French variety, Blush pink flower. For indoor plant.....	Each \$ .35	Dozen \$	
HYDRANGEA—Outdoor variety, large strong plant.....	.50		
LANTANA—Orange, yellow, rose and lavender.....	.15		
LARKSPUR—Red, white, pink or blue.....	.05	.50	
LAVENDER—Trailing, for hanging baskets, 2-year-old plants.....	.25		
MARIGOLD—Yellow and orange.....	.05	.50	
MINT—Roots to be planted close to hydrant. Leaves add a delicious flavor, when crushed, to tea.....	.10	1.00	
PANSIES—Giant winter blooming.....	.05	.50	
PANSY VIOLETS (Johnny-Jump-Ups)—Beautiful border plant.....	.05	.50	



E. J. Shaylor Gladiola.

	Each		Dozen	
	\$		\$	
PINKS—Dianthus, mixed colors.....	.10		.75	
PETUNIAS, GIANTS—Double or single ruffled.....	.15		1.50	
PETUNIAS—Small varieties, mixed colors.....	.05		.50	
SALVIA (Scarlet Sage).....	.10		1.00	
SHASTA DAISY—Yellow and white.....	.05		.50	
STOCKS—Ten weeks, mixed colors.....	.05		.50	
VERBENA—Red, white, scarlet, pink or purple.....	.10		.75	
VINCA (Periwinkle)—Rose or white eye.....	.10		.75	
WANDERING JEW—A trailing foliage plant, especially desirable for hanging baskets, porch boxes, etc. 3 rooted stems for.....			.25	
ZINNIA—Giants, red, pink, white, yellow, orange or practically any color desired.....	.05		.50	

**BE SURE TO INCLUDE POSTAGE WITH YOUR ORDER FOR PLANTS**—8c for the first four plants and 1c for each additional plant, up to 10c per dozen.

## For Gardening Success

Select good seed and plants, care for them properly, and feed them regularly with Vigoro, the complete, balanced plant food.

Vigoro contains all of the food elements necessary to produce rich-green velvety lawns; large beautiful flowers; healthy, full-foliated shrubs and trees; and early, delicious vegetables. Vigoro is the square meal for all plants and should be fed not less than three times annually.

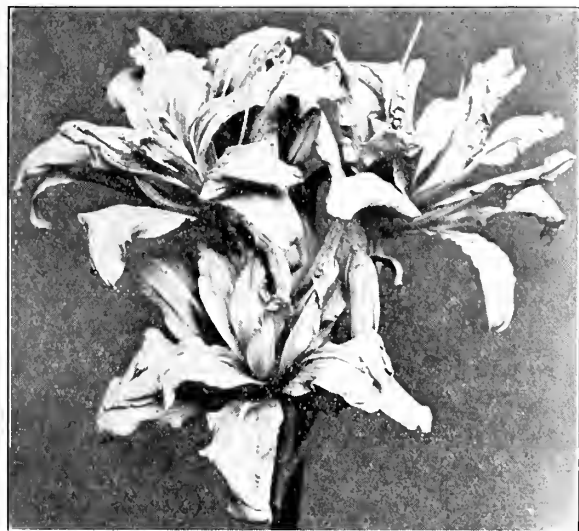
Vigoro is clean, odorless, and economical. Simple directions for using Vigoro come with every bag or package. It is used annually on 3,000,000 homes. We recommend it unqualifiedly.

# VIGORO

Complete plant food

Prices—F. O. B. Dallas:

100 lb. bag .....	\$5.00
50 lb. bag .....	3.00
25 lb. bag .....	1.75
5 lb. package .....	.50
12 oz. package .....	.10



Hemerocallis.

## Square Brand Hi-Germinating Field Seeds

Our Square Brand Field Seeds are recognized for their outstanding quality. This is the result of expensive and pains-taking care in breeding, and selecting experienced growers, many of whom grow exclusively for us.

After securing the purest stocks obtainable, we give special care to handling our seeds—using the most modern cleaning equipment

and methods, so as to assure their purity, high germination and good appearance.

Due to fluctuation in prices at the time we go to press, it is impractical to make prices on field seeds in this catalog. We assure you, however, of the lowest possible prices, good seeds considered. Ask for prices, specifying quantity of seed wanted.

### Square Brand Alfalfa Seed

INOCULATE WITH NITRAGIN

Alfalfa is recognized as the most valuable leguminous permanent crop grown for pasture and hay. Its hardness makes it adaptable for almost any climate and type of soil except acid soil, which should be corrected by the use of lime and ample drainage. It enriches the soil. Sow 20 pounds per acre on well prepared clean soil covering about one inch with harrow, followed by roller. Keep weeds clipped down with mower until Alfalfa thoroughly covers ground. The Cahoon or Cyclone seeder is recommended for use in sowing. Be sure to inoculate with Nitragin.

**SQUARE BRAND ALFALFA**—This is our finest quality; is carefully selected and double re-cleaned from the best American Grown seed produced by experienced Alfalfa seed growers. Bright in color, high in germination. Ask for prices.

**FANCY ALFALFA**—This is our second grade seed. It is of a fine quality, also carefully selected and well re-cleaned. Ask for prices.

**HAIRY PERUVIAN ALFALFA**—A Native of Peru but now very popular in the South and Southwest and well adapted for Texas, Louisiana and New Mexico soil and climate. May be cut the year around for hay, when winter is mild. Ask for prices.



Harvesting Square Brand Alfalfa.

### Square Brand Clover Seed

INOCULATE WITH NITRAGIN

All varieties of Clover have exceptionally high feeding value, containing protein which is needed to build up muscle and beef and to increase the yield of milk. Clovers are soil renovators, being resistant to most insects and fungus disease, making possible a better system of crop rotation. One of the greatest needs of the South is the use of more legumes to build up and improve the soil. Clover cannot be excelled as a gatherer of plant food and accumulator of nitrogen from the air—often adding 200 pounds of nitrogen per acre in a year. Do not use bur varieties where sheep are to be grazed, since burs reduce grade of wool.

**SQUARE BRAND SWEET WHITE BLOSSOM, SCARIFIED**—This is the most popular variety, being adapted to practically all Texas soils. It is a great sub-soiler as the roots penetrate deep into the ground breaking up hardpan, and decompose, adding humus to the soil. We recommend planting in September and October; also February to April, 15 pounds of Clover with 1½ to 2 bushels of Oats per acre in well settled soil covering lightly, following with roller. May be planted alone also. Ask for prices.



Square Brand White Blossom Sweet Clover not only produces a wonderful pasture crop, but greatly enriches soil and prevents erosion.

**FANCY SWEET WHITE BLOSSOM, SCARIFIED**—This is our second grade and is of fine quality. Ask for prices.

**MELILOTUS INDICA (Annual Yellow Blossom Sweet Clover)**—Sometimes known as Sour Clover. Used extensively as a cover crop, especially in orchards. Very popular in South Texas where it grows all winter and produces a vast quantity of green manure to be turned under in the early spring. Can be sown in fall or spring, 15 to 20 pounds per acre. Ask for prices.

**BUR CLOVER**—Now in demand in the South for winter pasture. Popular for sowing in Bermuda grass sod for permanent pasture. Disc over your Bermuda grass and sow in the fall, followed with roller. Also fine to sow with other grasses for permanent pasture. Grows well on any type of soil. Plant in August, September or October. Ask for prices.

**SOUTHERN SPOTTED LEAF BUR CLOVER (In Bur)**—A most popular variety, produces early grazing and lasts longer. Ask for prices.

**CALIFORNIA GROWN BUR CLOVER (Hulled)**—Also a popular variety. If sown alone use 20 pounds per acre. Ask for prices.

**WHITE DUTCH CLOVER**—A hardy perennial spreading clover. Too small for hay. Recommended to mix with other grasses for lawn or pasture. Sow 6 to 8 pounds per acre. Ask for prices.

**JAPAN OR LESPEDEZA CLOVER**—Considered the best Clover to plant in the South during the spring months, but some plant it in the fall. Thrives on poor land and is a great soil builder. Sow 20 to 25 pounds per acre on fresh disc or harrowed land, followed by roller. Ask for prices.

**KOREAN LESPEDEZA**—A mammoth early variety, withstanding dry hot weather. Does exceptionally well on Black land; is about 30 days earlier than other varieties. Resistant to storm and a heavy seed yielder. Ask for prices.

**KOBE LESPEDEZA**—A mammoth late variety also producing well on Black land and withstanding heat and dry weather. Matures about the same time as Common Lespedeza but much larger growth. Ask for prices.

**BLACK MEDIC OR TREFOIL (Medicago Lupulina)**—A biennial belonging to the Alfalfa and Clover family. Has small yellow blossoms. The plant is similar to Alfalfa except that it spreads more and lays flat on the ground. Sow 15 pounds per acre in September and October; also in February, March and April, if sown alone; 2 to 3 pounds when sown with other grasses. Ask for prices.

**HOP CLOVER**—Sometimes called English Red Suckling Clover. Recommended for light soils in East Texas. Grow upright when thick on the ground but single plants will spread. Should be sown in September and October. Ask for prices.



## Square Brand Seed Corn

TREAT SEED WITH SEMESAN, JR.

No one can afford to plant inferior seed corn. It is one of our most important crops. Good seed costs only a few cents per acre more than poor seed. We recommend Southern grown seed in most instances, especially on good rich soil. We also handle some Northern grown corn for those wanting early maturity. **Treat your corn with Semesan, Jr., before planting.**

### Southern Grown Varieties

**CHISHOLM WHITE, RED COB**—A native variety. Large ear, large deep creamy-white grain. Red cob has no equal as a milling corn. It is medium early, maturing in from 105 to 115 days. **Ask for prices.**

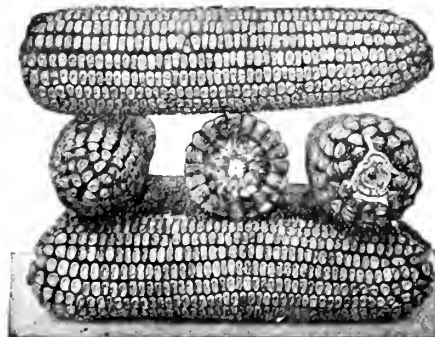
**WHITE WONDER**—A large ear, with medium large grain and white medium sized cob. Used extensively in South Texas for roasting ears—medium early, maturing in from 110 to 120 days. **Ask for prices.**

**YELLOW DENT**—The best high-yielding yellow corn for the South—deep, large yellow grain. Medium large ears. Withstands storms on account of large stalk. Matures in from 110 to 120 days. **Ask for prices.**

**SURCROPPER**—The most popular early maturing corn. Its drouth resisting qualities make it desirable for summer planting as well as spring. Planted extensively on stubble after grain harvest. Large white grain on white cob. Medium large and well-formed ear. Matures in from 100 to 110 days. **Ask for prices.**

**STRAWBERRY**—A popular and high-yielding corn in Texas and other Southern states. Large ear with strawberry colored kernels; a fine all-purpose corn. Matures in from 115 to 125 days. **Ask for prices.**

**SQUAW SEED CORN**—A natural drouth resisting variety. The grains are a combination of colors but mostly blue and white. Large ears, good yield. Can plant any time from March to August. Compares favorably with Mexican June Corn for late planting. Matures in from 105 to 115 days. **Ask for prices.**



Chisholm, Red Cob.

**BLOODY BUTCHER**—A good yielder—well adapted to the South. Produces a beautiful deep red grain. Matures in 120 to 130 days. **Ask for prices.**

**HICKORY KING**—A good drouth resister and medium yield. Large flat white grain, very small cob and largely planted for roasting ears. **Ask for prices.**

**DWARF MEXICAN JUNE**—A dependable drouth-resister. Planted extensively in May, June and July; also popular for stubble planting and roasting ears. Matures in from 100 to 110 days. **Ask for prices.**

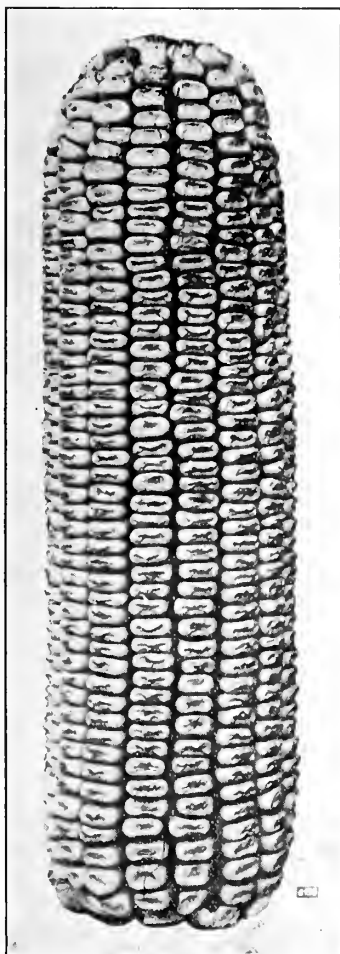
### Northern Grown Varieties

**SILVER MINE**—Quick maturing and hardy; also splendid yielder. Pure white kernel, small white cob. Matures in from 90 to 100 days. **Ask for prices.**

**GOLD MINE**—The earliest maturing variety of all yellow Northern corn. Bright golden yellow grain on small cob, similar to Silver Mine except in color. **Ask for prices.**

**EARLY WHITE PEARL**—Largely used for roasting ears. Is the earliest maturing corn on the market. Produces large, uniform ears, with pure white kernels—with more fluid than Silver Mine. **Ask for prices.**

**YELLOW LEAMING DENT**—A standard variety and very popular in the South on account of its early maturity. Deep, closely packed yellow grain. Medium sized ears. **Ask for prices.**



Silver Mine.

### These Increased Profits Can Be Yours

Not less than three bushels more corn per acre can be reasonably expected by any farmer who treats seed corn before planting. Field or sweet corn dusted with Semesan, Jr., is protected from destructive root rots. Better germination, better stands and better yields of improved quality are obtained.

Early planting frequently makes larger yields possible, but early planted corn has ever been handicapped by the seed rotting in the ground. Semesan, Jr., affords seed corn protection from rotting in cold, wet soil.

Typical of the beneficial effects of Semesan, Jr. seed treatment, upon germination, stands and growth are the following comments by practical growers:

"I found that Semesan, Jr. greatly helped in quick and better germination. In fact had some corn 'break ground' in 3 days—and made a better stand than I expected as the 'vitality' of most seed corn last spring was much below normal."

"The Semesan, Jr. treatment not only increased germination but also hastened the germination, increasing sturdiness of stalk growth and caused a marked yield increase in the rows of Semesan, Jr. treated corn compared with the untreated."



Semesan, Jr., increased the yield of field corn 21.3 bushels per acre over the untreated seed, planted in the same field.



The uniformly taller stand of corn on the left is from treated seed; that on the right is from untreated seed.

Understand this is a seed disinfectant and not an insecticide, although some users claim that ants, bugs, gophers, etc., do not attack seed treated with Semesan, Jr.

Treatment with Semesan, Jr., costs less than 3c per acre, and pays a splendid profit on the cost. Easily and quickly applied as a dust, at the rate of 2 ounces per bushel of seed. **Prices: 4 oz. 50c; 1 lb. \$1.75; 5 lbs. \$8.00.**

Free pamphlet containing valuable information, sent on request.



# Square Brand Field Beans

INOCULATE WITH NITRAGIN

## Soy Beans

Soy Beans belong to the legume family, being wonderful soil builders. They take nitrogen from the air and store it in the nodules of their roots. They do well on same soil as corn, but will produce very satisfactorily on poorer soil.

The land should be prepared as for cowpeas, and the seed planted in drills. If wanted for hay crop the vines should be cut when the upper leaves begin to turn yellow, but if wanted for seed the gathering should be delayed until nearly all the leaves have fallen. The hay is easily cured and is fully as nutritious as that from cowpeas. You should inoculate your seed with "Nitragin" for best results.

**MAMMOTH YELLOW**—The most popular and largest yielder. Grows 3 to 5 feet high. Should not be planted until all danger of frost is past. For hay and as a soil builder sow  $2\frac{1}{2}$  bushels per acre broadcast; for beans plant from 15 to 30 pounds per acre in drills  $3\frac{1}{2}$  feet apart. **Ask for prices.**

**NEW LAREDO SOY BEANS**—This is a new variety that is a distinct addition to the forage crops of the Cotton Belt. Its value, when compared to other soy beans, is in the fineness of its stems, its yield of hay, its medium early maturity and its heavy yield of seed. As a hay yielder, this bean is outstanding. One bushel will plant from 8 to 10 acres in  $2\frac{1}{2}$  foot rows. The seed should be dropped from 3 to 6 inches apart in the drill and covered one inch. It is both wilt-resistant and nematode resistant. **Ask for prices.**

**MUNG BEANS**—Mung Beans were introduced into America as far back as 1835. They are upright in growth, strong and vigorous, free from disease of any sort, make excellent hay, retaining their leaves after being cut to a remarkable degree. The beans are excellent for table use, the flavor being quite similar to cowpeas. The beans mature in 90 to 100 days. Can be planted any time you would plant cowpeas. A splendid soil-builder. Five pounds of seed will plant an acre with a drill in  $3\frac{1}{2}$ -foot rows. It does well broadcast also. **Ask for prices.**

**SQUARE BRAND VELVET BEANS**—Becoming very popular for forage crop and as a soil builder. Grows faster and more prolific than other forage plants. Splendid for grazing all kind of stock. Fine for planting in corn. Plant in rows 3 to 5 feet apart, 2 to 3 pecks per acre. **Ask for prices.**

**EARLY SPECKLED VELVET BEANS**—An extra Early Bean. Can be planted in May and June and still mature before frost; also fine for September planting to be turned under as cover crop for improving soil. **Ask for prices.**



Mammoth Yellow Soy Beans.

## Soil Building

Planting field and cow peas serves a double purpose. You not only get your crop but you build the soil at the same time. Of course, if the crop is not needed and you can turn it under for a green manure crop you will secure a vast amount of fertility in a very short time.

By giving careful study to proper rotation of crops you can maintain sufficient fertility in your soil to care for your plant requirements, but it takes constant crop rotation and occasional green manure crops combined with winter cover crops to supply plant foods.

The roots of leguminous plants, as a rule, bear many nodules. These nodules afford to the plant the use of the free nitrogen of the air. The nodules are caused by bacteria which obtain their principal nourishment from the legume and in turn furnish to the plant a most generous supply of nitrogen.

In planting a leguminous crop for the first time, it often happens that no nodules form on the roots because the proper bacteria are not present in the soil. It is, therefore, best to inoculate legume seeds with commercial bacteria, which we offer in the form of "Nitragin". This will insure you nodular development on the roots of your legume plants.

So many tests have been made which clearly indicate the value of nitrogen inoculation that we recommend, unhesitatingly this very inexpensive form of soil and crop improvement. If your legume seeds are worth the time and expense of planting, they are certainly worth the small additional time and expense of inoculating.

Nodules are different in type and variety, and "Nitragin" takes this difference into consideration and provides bacteria for the particular type of seed you are wanting to inoculate. Care should be used to see that the proper inoculation is used. Tell your dealer the name of the seed you expect to inoculate.

Bear in mind that cow peas and field beans furnish you splendid food for your cattle. We recommend especially, that, where possible, you allow your cattle, hogs, sheep, etc., to harvest the crop themselves, thus returning to the soil the plant food in its most desirable form—animal manure.

## Square Brand Field or Cow Peas

INOCULATE WITH NITRAGIN

Cowpeas are the old reliable leguminous crop for the South. Adapted to practically every kind of soil, besides being the cheapest and surest means of improving soil. They add nitrogen to the soil and improve its mechanical condition, besides yielding a prolific crop of nutritious hay. The seed are universally used for human food.

**SPECKLED WHIPPOORWILL**—The most popular and widely grown early variety. Grows upright; easily gathered. Brown speckled seed. **Ask for prices.**

**BRABHAM**—An early wilt-proof, disease resistant variety. Very similar to Whippoorwills except much smaller seed requiring less for planting a given acreage. The foliage is valuable for hay. **Ask for prices.**

### WRITE FOR OUR FREE BOOK ON "BETTER PASTURES AND WINTER COVER CROPS"

It contains information that you should have in your soil building program. It is based on the experience of numerous farmers and county agents.



Square Brand Velvet Beans.



Whippoorwill Peas.

## Square Brand Field or Cow Peas (Continued)

INOCULATE WITH NITRAGIN



Black Eye Peas.

### SQUARE BRAND AUSTRIAN WINTER PEAS—

A remarkable winter legume that is coming rapidly to the front. Resembles the English Pea in size of seed, the Canada Pea in character of vine. Can not be excelled as a winter cover crop, thriving after being subject to zero temperature. Will grow from 5 to 6 feet tall on fertile soil. Makes excellent hay besides furnishing grazing for all live stock. Plant in September or October and plow under in the spring before time to plant the spring crop. If planted following a cultivated crop it is not necessary to plow the ground, using a harrow before and after sowing followed by roller on loose soil. Preferable to sow 30 to 40 pounds per acre with a bushel of Rye, Barley or Wheat to hold vines off ground. If planted alone sow 50 to 60 pounds per acre. Ask for prices.

**SQUARE BRAND CANADA PEAS—**A fine combination legume for grazing, hay, cover crop and table use. Plant in October or November and again in the early spring. Grows from 4 to 6 feet high and can be grazed when 6 to 10 inches high; pasturing makes them stool better. A great soil builder even when grazed or cut for hay, on account of storing nitrogen in the roots. Exceptionally fine when turned under as green manure. We recommend sowing a bushel of Oats, Barley or Wheat with 40 or 50 pounds of peas per acre. If sown alone, use 75 pounds per acre. Ask for prices.



A field of Square Brand Austrian Winter Peas—the ideal fall cover crop.

## Square Brand Hairy Winter Vetch

INOCULATE WITH NITRAGIN

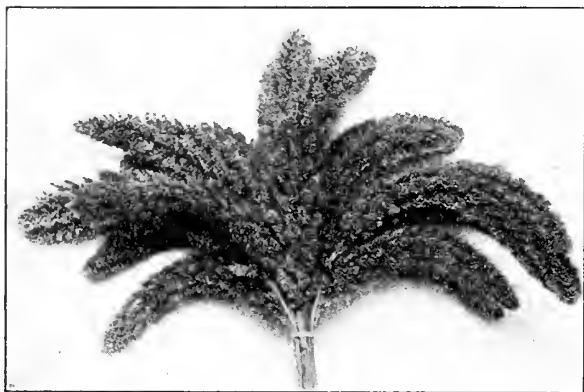
The hardiest of all Vetches. Gathers nitrogen making it a wonderful soil improver. Highly recommended for grazing and hay. A splendid substitute for Clover on land too poor to grow Clover. Covers the ground during the winter, preventing the leaching of valuable plant foods. Sow in August or September for fall planting using 30 pounds per acre with the same amount of Barley or Oats to support the Vetch. Also desirable for spring planting making good summer pasture. Ask for prices.

A careful survey among thousands of farmers in Texas and Oklahoma, and among county agents and agricultural experts, has convinced us of the fact that through soil building, proper crop rotation, better pastures, stock development, and living at home, the farmer of today must solve his problems. In offering high grade seed, at the lowest prices possible, we are attempting to do our part to aid in the present re-adjustment of conditions. Plant **SQUARE BRAND SEEDS** for greater yields of more marketable crops.



Square Brand Hairy Vetch—a splendid cover crop, ideal for soil building and the prevention of erosion.

## Square Brand Broom Corn



Big German Millet.

## Square Brand Peanuts

### INOCULATE WITH NITRAGIN

Peanuts are a most profitable crop on light loamy or sandy soil and often produce 50 bushels per acre on soil too poor to plant in corn. In addition to nuts, they ordinarily produce one ton of nutritious forage per acre.

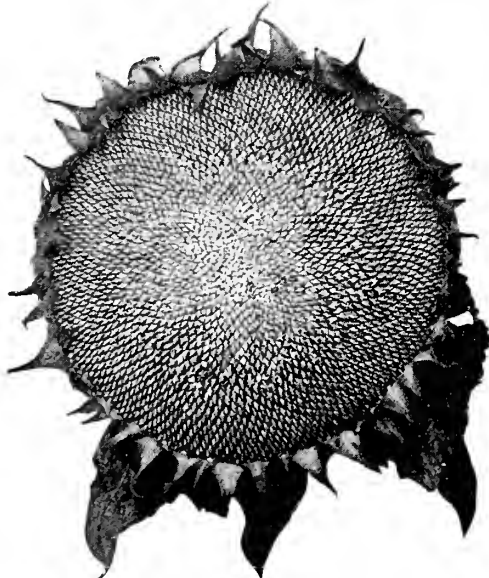
**SPANISH PEANUTS**—This variety produces a small sweet nut with a better flower than the larger varieties. Grows more compactly and can be grown closer and easier cultivated than the Virginia Peanuts; also contains a higher per cent of oil than other varieties. No better crop grown for fattening hogs. **Ask for prices.**

**TENNESSEE LONG RED**—Does well on black waxy land as well as sandy soil. Larger in size, with greater number of nuts than most varieties grown in the South. A splendid commercial variety and very productive. **Ask for prices.**

**IMPROVED VIRGINIA JUMBO**—A standard variety for roasting. Planted almost exclusively by the peanut growers of Virginia. The vines furnish excellent foliage. Grows upright and easily cultivated. **Ask for prices.**

## Square Brand Sunflower Seed

**MAMMOTH RUSSIAN**—This variety produces an enormous head, from 12 to 20 inches in diameter. On light, well drained, well tilled fertile soils yields from 30 to 50 bushels per acre. Plant and cultivate as you would corn. May be planted some earlier, using 8 to 10 pounds per acre. As a poultry food mixed with other grains it has no equal. **Ask for prices.**



Mammoth Russian Sunflower.

McDade, Texas, Dec. 2, 1931.  
Sherman-Magnolia Seed Co., Dallas, Texas.

Gentlemen:—Please send your latest seed catalog. I have used your seed and find them entirely satisfactory. Thanking you, I am,

Very truly yours,

MRS. EDGAR OWEN.

### POULTRY AND HOGS

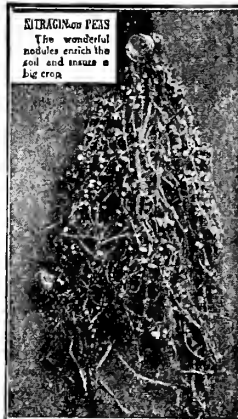
Often represent the difference between Profit and Loss on the farm. A start can be made with them at less expense than any live stock. Read our poultry section. You can equip a brooder house for as little as \$15.00.



Spanish Peanuts.

### NITRAGIN PEAS

The wonderful nodules enrich the soil and insure a big crop.



## Every Farmer Should Know

the value of legumes to his soil. All legumes form a partnership at the roots with certain kinds of helpful bacteria called Legume Germs, that are able to pump or draw nitrogen from the air and give it to the plant. They form on the roots in colonies, looking like lumps, called nodules, which are really nitrogen storehouses.

Without these germs, legumes would rob the soil for nourishment and have a sickly growth, for few soils contain a sufficient natural supply. It is therefore, very desirable to "inoculate"—apply these nitrogen gathering germs directly to the seed. All agricultural authorities advise inoculation of legumes.

Legume germs are perishable and die rapidly when dried. For that reason we recommend the use of Legume Germs which are packed moist and stay moist until applied. Nitragin meets these requirements. Every can carries an expiration date, after which the germs should not be used. There is no danger, therefore, of your getting nitrogen germs which have died when you use Nitragin.

See page 43 for prices.

## Square Brand Dwarf Essex Rape Seed

Here is one crop that too few of us appreciate at its full value and to which we would do well to give more attention, not only as a feed for hogs, but as a source of green feed for all livestock, including chickens—and the family as well. It will astonish anyone who has never planted it to see how much grazing an acre of this plant will give. Rape makes a very acceptable dish of greens, and can be grown as a substitute for turnip greens. The plants grow to a height of from one to four feet, depending on conditions of soil and climate. In shape and color of leaf it resembles the rutabaga. The leaves grow very rank and succulent, and being sweet and tender, they are quite palatable. Fall seeding is best, but early spring sowing is successful. The crop is not injured by ordinary winters in the South. It is ready for grazing in from 8 to 10 weeks. Yields of 30 tons per acre, green weight, are not rare. An acre of good rape will pasture 20 hogs for two months. Sow in drills, 5 to 8 pounds per acre. Ask for prices.



Dwarf Essex Rape.

See Pages  
48 to 64  
for  
interesting  
Poultry  
Help.



Seed Wheat.

### Lower Acre Cost Of Oats By Increasing Yields With Ceresan

Your oat production cost per acre can be lowered—and your profits enlarged—by increasing your yields with Ceresan. Treat all seed oats with Ceresan to prevent seed-horne smuts and scab seedling blights.

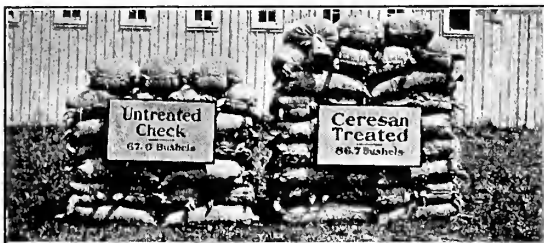
Dust Ceresan on your seed before planting—no soaking or wetting of the seed—no injury to the seed. Economical to use. Apply 3 ounces per bushel of seed oats and barley; and 2 ounces for wheat, rye or sorghums.

You can improve your yields of Barley, Rye and Wheat also by using Ceresan. It protects against the covered smut, stripe disease and scab seedling blight of Barley and is deadly to seed carried spores of stinking smut or bunt, and seedling blight of

### Seed Wheat

TREAT WITH CERESAN  
BEFORE SOWING

DENTON COUNTY MEDITERRANEAN — Grown from seed bred up and improved by the Denton County Experimental Station; best for the Southwest. Ask for prices.



Ceresan Increased the Yield of Oats 19.1 Bushels Per Acre in Illinois Experiment Station Tests.

## Square Brand Seed Oats

TREAT WITH CERESAN BEFORE SOWING

**SQUARE BRAND RED RUST PROOF**—Very resistant to winter killing. Deep rooted and tree-stooling. Splendid drought resister with small stiff stems. Special care is used in reseedling. Ask for prices.

**EARLY FULGHUM**—This variety matures about 10 days earlier than ordinary Texas Red Oats, has tall stiff stems; resistant to storms. Can not be excelled for hardness and resistance to Rust and other diseases. The kernels are a rich buff in color and usually free from Beards. Plant in fall or spring, 2½ bushels per acre. Ask for prices.

**FERGUSON NUMBER "71" OATS**—**FERGUSON NUMBER 922 OATS**—We have a quantity of these oats grown from seed one year from originator. They are recognized as one of the finest strains of Red Rust Proof Oats and are much in demand by our customers. Ask for prices.

## Winter Barley

TREAT WITH CERESAN  
BEFORE SOWING

**SQUARE BRAND WINTER BARLEY**—Yields from 30 to 60 bushels per acre and makes a fine winter pasture. Grown from certified seed. Ground barley for dairy feed is becoming most popular and the demand is increasing. Sow about 2 bushels per acre. Ask for prices.

## Winter Rye

TREAT WITH CERESAN  
BEFORE SOWING

**WINTER RYE** is fast becoming appreciated as winter pasture and as a cover crop to be turned under for green manure. Sow 1½ to 1½ bushels per acre. Ask for prices.

seedling blight of Wheat. Experiment Stations everywhere recommend this treatment and you should be sure to use it this season and avoid losses which so frequently develop.

### PRICES:

1 lb. 75c; 5 lbs.  
\$3.00; 25 lbs.  
\$12.50; F. O. B.  
Dallas.

Free pamphlet containing valuable information sent free upon request.



Barley, Bearded.



## Square Brand Saccharine Sorghums

### Cane Seed for Syrup



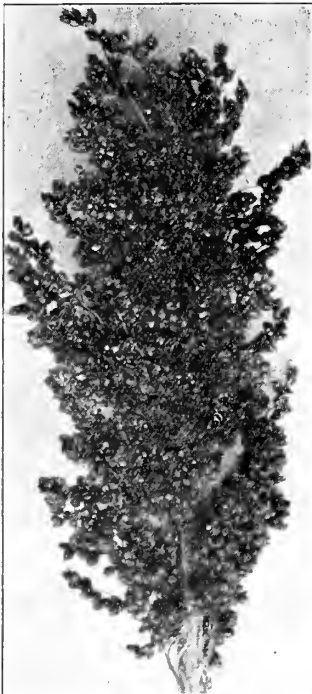
Japanese Cane.

**SQUARE BRAND OKLAHOMA RED TOP**—Our highest quality. A deep cherry color, grown in Oklahoma from improved seed. A much heavier producer than ordinary red top. **Ask for prices.**

**KANSAS FANCY RED TOP**—Grown in Kansas and very popular in Texas. **Ask for prices.**

**SQUARE BRAND BLACK AMBER**—The leading saccharine sorghum for early green feed and silage. Matures early making excellent hay, green or cured. Early plantings yield two or three cuttings per year. **Ask for prices.**

**SQUARE BRAND ORANGE**—A later variety than Black Amber. Used principally for forage but sometimes used for syrup. **Ask for prices.**



Square Brand Black Amber.

### Cane Seed for Forage

The following varieties are used almost exclusively for forage. To reproduce seed, drill and cultivate planting 3 to 6 pounds per acre. For forage drill, 5 to 10 pounds per acre or broadcast 100 to 150 pounds per acre.



Square Brand Red Top Cane. Note Uniformity of Heads.

Waco, Texas.

Gentlemen:

You will be interested to know that the Japanese Honey Cane seed I bought from you this past spring netted me \$75.00 for the acre I sowed. Under conditions prevailing today I felt that was exceptionally good, and I plan to plant 5 acres of Square Brand Japanese Cane seed this year.

Yours very truly,

T. G. HINTON.

## Square Brand Non-Saccharine Sorghums

The non-saccharine sorghums are used mostly for grain but the leaves make good forage and some varieties have sufficient saccharine in the stalk to make excellent forage. They will usually produce good grain when it is too dry for corn.

**SQUARE BRAND HEGARI**—Grown for us from certified seed. Hegari originated in Africa. It is a semi-dwarf plant producing a large head of creamy-white grain which is hard to shatter. Is fast becoming the most popular sorghum grain as the stalk makes splendid forage in addition to the large yield of grain. A drought resister. Plant 3 to 4 pounds per acre for seed or grain and 5 to 8 pounds per acre for combination grain and forage. **Ask for prices.**

### Soil Erosion

Soil erosion can be largely overcome by the same means used to overcome soil exhaustion, as outlined on page 38, except that great care must be used in the selection of proper crops to hold the soil and prevent erosion.

Terracing is playing a big part in the elimination of soil erosion. Your county agent will be glad to aid you with suggestions on terracing.

Clovers and grasses are the best crops to plant to halt erosion. Combined with terracing, they give an almost complete elimination of soil erosion.



Hand Rogued Hegari.

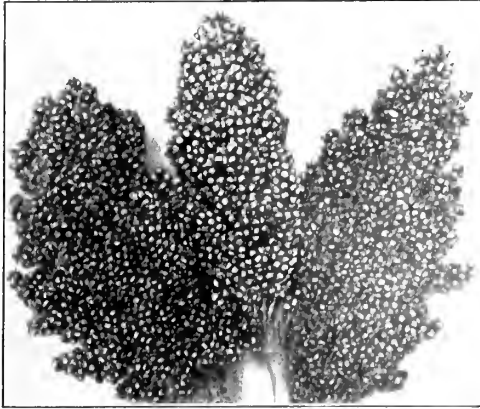


## Square Brand Non-Saccharine Sorghums (Continued)

**SPUR FETERITA**—Has almost displaced common Feterita. Was developed at the Agricultural Experimental Station at Spur, Texas. It makes a shorter stockier stalk with more leaves than common Feterita, making a better forage crop. Especially adapted to black lands in addition to the Western sorghum grain belt. **Ask for prices.**

**BLACK HULL WHITE KAFIR**—Grows an upright strong stem with broad leaves from 4 to 5 feet high. The stalk makes better forage than any of the other non-saccharine sorghums, excepting Hecari and Shrook Kafir. **Ask for prices.**

**SCHROCK KAFIR or SAGRIN**—Originated in Oklahoma. Dwarf variety with an abundance of long broad leaves and a large spangled head with light brown grain which is excellent stock and poultry feed. It is one of the best varieties for combination forage and grain as the stalk is sweet and brittle. It stools out making 6 to 8 stalks from one seed, all stalks making heads. Matures 10 to 14 days earlier than other varieties, therefore popular for late planting on stubble land. **Ask for prices.**



Black Hull White Kafir.

**GROHOMA**—A new variety and becoming very popular on account of its heavy yield of grain. It stools out each stalk making a full matured large head from 12 to 14 inches long. The grain is light brown and splendid for all kinds of stock. Requires a little longer to mature than Maize or Kafir, but yields much more grain per acre and does not shatter. Drill 2 to 4 pounds per acre. **Ask for prices.**

**SQUARE BRAND DWARF YELLOW MILO**—The most popular non-saccharine sorghum grown in Texas. It is the principal grain crop in Western and Southwestern Texas, on account of its hardiness and dependability under all kinds of conditions and is now grown in all parts of Texas. A heavy yielder of the finest kind of grain for all kinds of stock and poultry. **Ask for prices.**

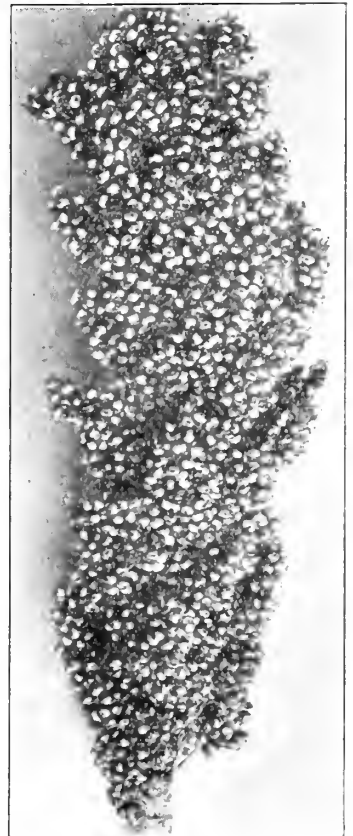


Grohoma—Heads On One Plant.

**SHALLU or EGYPTIAN WHEAT**—A variety which does well in almost every part of Texas. Stools out from root similar to Schrock Kafir. Has large spangled head, a heavy yielder of both grain and fodder. **Ask for prices.**

**DARSO**—A dwarf variety with large stalk and heavy foliage. Has a uniform straight stalk which is very juicy and contains about 12% saccharine, making it especially good for forage. Also a good grain yielder and excellent for silage. Drought-resistant and somewhat earlier than Kafir. **Ask for prices.**

**ALGERIA or BISHOP KAFIR**—A cross between Maize and Kafir. Grows from 4 to 5 feet tall, each plant stooling out making several stalks. Stalk eat entire stalk with relish, on account of the heavy saccharine contents. The seed are softer and larger than Maize with much larger heads. Drill 4 to 5 pounds per acre and thin as corn not working too close to roots, until it has had chance to stool. **Ask for prices.**



Spur Feterita.

Disinfect  
Sorghum  
Seeds  
with  
Semesan.

**SQUARE BRAND DOUBLE DWARF YELLOW MILO**—Almost identical with Dwarf Milo except a much smaller, shorter stalk. Matures quicker and will stand more drought on account of smaller stalks. **Ask for prices.**



Dwarf Yellow Milo.

## Inoculate With Nitragin To Increase Profits

Successful farmers are realizing more and more the value of planting legume crops and inoculating with Nitragin to increase the fertility of their soil. Not only do they get the fertility that comes from the growing of these crops, but they materially increase the vigor, vitality and yield of their crops through the use of a good inoculant.

Legume Germs are perishable. **NITRAGIN**, for many years, has had the Expiration Date on its labels to guarantee the farmer fresh, active germs. Undated inoculants in tins or in bottles may be old and worthless.

All legume germs need air and moisture to remain fresh and active. In the preparation of **NITRAGIN**, pure cultures of legume germs are mixed with a finely ground black soil-like substance, and packed in ventilated tins. This keeps **NITRAGIN** in a moist, healthy condition. Only selected and tested strains are used.

Alfalfa, all clovers, soybeans, cowpeas, vetch and all field and garden peas should be inoculated with Nitragin.

**NITRAGIN A**—For Alfalfa and Sweet Bur Clovers.

**NITRAGIN B**—For Red, Alsike, Mammoth Red, Crimson and White Clovers.

**NITRAGIN C**—For Vetch, Austrian Peas, Field and Garden Peas.

**NITRAGIN D**—For Field and Garden Beans, Scarlet Runner, Kidney and Navy Beans.

**NITRAGIN E**—For Cow Peas, Partridge Peas, Velvet Beans, Lespedeza, Kudzu and Peanuts.

**NITRAGIN S**—For Soy Beans.



The original and dated inoculator with the legume germ count on every can.

### PRICES POSTPAID:

**NITRAGIN A and B**—1/4 bu. 40c; 1/2 bu. 60c; 1 bu. \$1.00; 5 bu. \$4.75.

**NITRAGIN C and D**—1/2 bu. 40c; 1 bu. 60c; 100 lbs. 90c; 3 1/2 bu. \$1.80; 5 bu. \$2.50.

**NITRAGIN E and S**—1 bu. 40c; 2 bu. 70c; 5 bu. \$1.50; 10 bu. \$2.50.

**GARDEN NITRAGIN**—For Garden Peas, Garden Beans, Sweet Peas and Lima Beans—25c each.

Be sure to specify for what kind of seed you desire inoculation.

# Square Brand Grass Seed

## Sudan Grass



Sudan Grass.

**JOHNSON GRASS**—Is hard to eradicate in the South, continues to grow year after year from the roots, except in climates with zero temperature. Makes the very best quality of hay, withstands drouth and very prolific. **Ask for prices.**

**RHODES GRASS**—An excellent hay and pasture crop for the South where the temperature does not get below 15 degrees. It is a perennial. Grows very tall on good land. It spreads from long runners on top of the ground throwing up new plants at each runner joint and covers the ground rapidly. The stem is upright and leafy making the best quality of hay, which is easily cured. With a good season can be cut every 50 days. Also ideal pasture crop for grazing. Sow, broadcast, in the fall 10 to 15 pounds per acre. Cover shallow with harrow and roll. **Ask for prices.**

**KENTUCKY BLUE GRASS**—Often sown in late summer or early fall in Bermuda lawn, especially in shady spots. Does not do well during the summer in the South. **Ask for prices.**

**RED FESCUE GRASS**—Recommended for sowing on poor lands and gravelly hill sides for pasture. Stands drouth, and makes a heavy sod on good land. Also used with other grasses for pasture. Sow 30 pounds per acre. **Ask for prices.**

**RESCUE GRASS**—This grass grows wild in some parts of Texas. It makes a fine winter and early spring pasture, dying when hot weather arrives. It re-seeds itself and will come up the following fall. Is good in permanent pasture mixtures. Broadcast in September and October, 20 to 25 pounds per acre. **Ask for prices.**

**DALLIS GRASS or PASPALUM DILATATUM**—A perennial, which grows continually except in freezing weather. Stands heavy grazing especially on moist ground and will gradually choke out Johnson grass and weeds. Especially good for stopping washes and gullies. Can be planted any time except in drouthy hot summer. 8 to 10 pounds per acre. **Ask for prices.**

**CARPET GRASS**—A perennial, does well on land lacking in lime. Makes splendid permanent pasture and its creeping habit of growth enables it to stand close grazing without injury. It is not a pest. One plowing will kill it. The Government recommends it more highly than Bermuda grass for the coastal plains. Also good for lawn and golf courses. Plant in September and October; also in February, March and April, 10 to 15 pounds per acre. **Ask for prices.**

Is similar in appearance to Johnson Grass, but is an annual, requiring reseed-ing every year. Produces well on all kinds of soil. Is drouth-resistant but does not blast with excessive rainfall. A dependable hay crop, with splendid feeding value for all kinds of stock. Also good for silage. In semi-arid regions is planted in drills 36 inches apart, using 5 pounds per acre if seed crop only is wanted, and 8 to 10 pounds for hay. With sufficient season will produce more and a finer hay if sown broadcast, 30 to 40 pounds per acre. Can get two to three cuttings, depending on length of season and rainfall. Cures easier than sorghum and produces a large tonnage per acre. We handle two grades, as follows:

**SQUARE BRAND SUDAN**—Grown for Selected Seed by experienced growers. Double re-cleaned. **Ask for prices.**

**FANCY SUDAN**—Our second grade, but carefully bought from growers whose lands are free from Johnson Grass. **Ask for prices.**

## Other Grasses

**ITALIAN RYE (American Grown)**—We recommend Rye Grass as one of the best for winter use. Is easily grown and makes splendid winter grazing for all kinds of stock. Also produces a good early spring hay crop. It is a perennial, reseed-ing itself if allowed to go to seed, making it fine to mix with other grasses and clovers for permanent pasture. Also used to sow in Bermuda grass for winter lawns. Sow in September or October using 20 to 30 pounds per acre, if sown alone. **Ask for prices.**

**ENGLISH RYE GRASS**—A valuable variety for permanent pasture; also for lawn. Drouth resistant. Used extensively in this section in Bermuda sod to keep the lawn green during winter and early spring. Sow in the fall; 30 pounds per acre. **Ask for prices.**

**BERMUDA GRASS**—The most valuable grass for Southern lawns and golf courses; also for summer pastures. Should be made the basis for permanent pastures in all soils except very light sand. It is permanent on fertile soils and endures long periods of drouth. Is benefited by grazing. It is the best known grass to prevent washing and erosion in gullies and on hill sides. Flourishes in sunshine but will not endure heavy shade. For pastures sow 10 to 15 pounds per acre on well prepared, firm seed bed, using roller. For lawns, 5 to 10 pounds for every 1,000 square feet, mixed with dry sand for even distribution. Should be sown in spring or late summer when it is warm and moist. **Ask for prices.**

**POA TRIVIALIS**—A quick growing perennial, very productive and nutritious. Especially good in shady places and low lands where other grasses do not thrive. Good to mix with other grasses for permanent pasture and lawn. **Ask for prices.**

**RED TOP OR HERD'S GRASS**—Is recommended for heavy moist low-lands as it withstands wet weather but also does well on most any good rich soil. Also used in the South on winter golf greens. Sow broadcast 15 to 20 pounds per acre. **Ask for prices.**

**MESQUITE or VELVET GRASS**—A hardy long-lived perennial with soft broad leaves, never gets coarse. Grows from 8 to 10 inches high. Especially recommended to sow with other grasses or clovers for permanent pasture. Makes the very best quality of hay, but if planted alone does not yield as large tonnage as many other grasses. Sow in September or October; also March or April, 20 to 25 pounds per acre. **Ask for prices.**

**POA BULBOSA or WINTER BLUE GRASS**—A perennial, especially good for winter pasture or lawn. Often mixed with other grasses and clovers for permanent pasture. If planted for lawn with other grasses use 3 pounds per 1,000 square feet. For pasture sow 15 to 20 pounds per acre. **Ask for prices.**



Italian Rye Grass.

## Does Your 1932 Program Include Some Stock Raising?

Much of the time—in fact most of the time, a farmer sells his feed crops at far better prices when marketed through stock, than is otherwise possible. For this reason we suggest that each farmer study his own stock problems and include as a part of his farming program, the development of some high grade stock, through which to plan his soil building and crop increasing program.

We have not attempted to make any analysis as to breeds of stock profitable to raise in any given area, but this information is available through your County Agent, who will gladly help you. Stock raising is a branch of farming which brings profit to the owner. Therefore it is worth thought.

## Permanent Pasture Mixtures

During the past year we have made a very close study of the grasses and clovers which produce best pasturage results for the various locations in Texas. These vary considerably and careful study should be given to your requirements before you buy your seed. The results of numerous conferences with county agents, farmers and stock men are given in the following recommended pasture mixtures:

**NORTH AND CENTRAL TEXAS**—Bermuda, in North and Central Texas, should be sodd in clumps and since it spreads very rapidly, you will get a good stand quickly. At the same time you sod, or if you already have a Bermuda stand, you should plant our Square Brand Pasture Mixture for North and Central Texas. This consists

of Rye, Dallis and Rescue Grass, and Black Medie, Spotted Leaf Bur this land, it is likewise desirable to order this Square Brand Pasture Mixture without the Bur Clover. **Ask for prices.**

**EAST TEXAS BLACK LANDS**—Our Square Brand Pasture Mixture for this territory consists of Bermuda, Rescue, Rye and Dallis Grass, and Black Medie, Hop and Sweet Clover, which is to be sown at the rate of 20 to 25 pounds per acre. Where a stand of Bermuda is already had, the mixture may be ordered without the Bermuda Grass Seed. If Bermuda has not been started, however, the Bermuda seed in this combination will come up satisfactorily. **Ask for prices.**

**EAST TEXAS MOIST LANDS**—The Square Brand Pasture Mixture for East Texas Moist Lands consists of Dallis, Rescue, Carpet and Red



A Profitable Permanent Pasture.

Clover and Sweet Clover, which should be sown at the rate of 20 to 25 pounds per acre. If sheep are to be pastured, order this Square Brand Pasture Mixture without the Bur Clover, since bur get in the wool of the sheep and reduce the grade of the wool. **Ask for prices.**

**EAST TEXAS SANDY UP-LANDS**—In this section, also, it is very desirable to have a Bermuda base and here, again, we recommend that the Bermuda be sodd as a matter of economic efficiency. Our Square Brand Pasture Mixture for East Texas Sandy Up-Lands consists of Rescue, Dallis and Rye Grass, and Black Medie, Lespedeza and Spotted Leaf Bur Clover, which should be sown at the rate of 20 to 25 pounds per acre. If any sheep are to be pastured on

Top Grass, and Lespedeza and White Dutch Clover, which is to be sown at the rate of 20 pounds to the acre. **Ask for prices.**

**BOTTOM LANDS IN SOUTHEAST TEXAS**—Our Square Brand Pasture Mixture for this territory consists of Bermuda, Rye, Dallis and Carpet Grass, and Lespedeza, Hop, White Dutch and Black Medie Clover to be sown at the rate of 20 to 25 pounds to the acre. **Ask for prices.**

**GULF COAST**—This Square Brand Pasture Mixture consists of Carpet, Rhodes, Rescue, Rye and Dallis Grass, and Lespedeza, White Dutch, Melilotus Indica and California Hulled Bur Clover, to be sown at the rate of 20 pounds to the acre. **Ask for prices.**

### Use the Cyclone Seed Sower for Even Distribution

To secure the best results by broadcasting seeds, we recommend the Cyclone Seed Sower, as the most economical and practical to use. It is probably the best known and most durable on the market. The web strap is thrown around the shoulders while the frame, shaped to rest easily and comfortably against the body, is carried without inconvenience. The left hand holds the frame in place, while the right turns the crank.

This Seed Sower will handle practically every type of seed, and is especially recommended for Alfalfa, Clover, Bermuda and all of the small seeds so generally sown in pastures. It works rapidly and is so economical that every farmer should have one.

The Cyclone's patent double feed makes it superior to all others on the market. This feed keeps two streams of seed flowing smoothly and steadily onto the distributing wheel. The seeder is set according to scale which has been worked out so scientifically that the seeder can be depended upon to sow the amount of seed per acre shown by the "directions" which come with each machine. Shipping weight, 5 lbs. Price, F. O. B. Dallas, \$2.50 each.



### The Noc-Out Hand Fertilizer Distributor

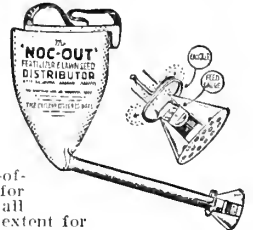
#### A NEW, INEXPENSIVE LABOR-SAVER

It distributes various commercial fertilizers in vegetable and flower gardens, around shrubs, in truck patches, potato furrows, etc. Convenient for sowing lawn seed on small areas, or for re-seeding bare spots on lawns and spreading fertilizers on such places. Does nice work as a duster for melons, cucumbers and all hill planted crops.

The Noc-Out overcomes all trouble from banking or clogging by means of an oscillating "knocker" which sets up a vigorous vibration when operated by short to-and-fro or small circle movements. The result is a steady, uniform flow through the feed regulator.

It takes only a short time to grow accustomed to the small circular movement which makes this distributor so effective. The ordinary distributor now on the market provides for easy distribution on large smooth areas, but this little distributor is the only one about which we know that will take care of the out-of-the-way places, such as under shrubbery, for side dressing close to plants, and in fact all close plant work. It is also used to some extent for dusting insecticides and has proven to be quite satisfactory for this work, although care must be used that the dust is not too clingy. This is one of the handiest small garden tools of recent invention, and it will unquestionably be very popular.

Made of good material—bag is heavy duck and the tube lacquered tin. Adjustable feed-gauge makes it work equally well for lawn seed or dusting material and for both heavy and light application of fertilizer. Capacity, 14 quarts. Shipping weight, 2 lbs. Price, F. O. B. Dallas, \$1.10 each.



## Compressed Air Sprayers

### Economy Sprayer

This Sprayer is designed to give you the greatest possible value at an attractive price. For use with White Wash, Cold Water Paints, Insecticides, Disinfectants, Shingle Stains, etc. Capacity approximately 4 gallons. Tank is made of first quality galvanized or brass sheet. Tested under actual working conditions to insure safety in operation. 5-ply discharge hose. All brass nozzle, automatic in operation. 18-inch brass extension rod. Shipping weight, 11 lbs.

No. 125-G Galvanized Tank. F. O. B. Dallas. . . . \$4.85  
No. 125-B Brass Tank. F. O. B. Dallas. . . . . 7.20

### Climax Sprayer

The Climax Sprayer offers all the essentials of a high pressure compressed air sprayer at a low cost. Adapted for all classes of work. Capacity approximately 4 gallons. 5-ply discharge hose. All brass nozzle with curved brass extension. Shipping weight, 10 lbs.

No. 135 CLIMAX—Galvanized Tank.  
F. O. B. Dallas. . . . . \$3.85

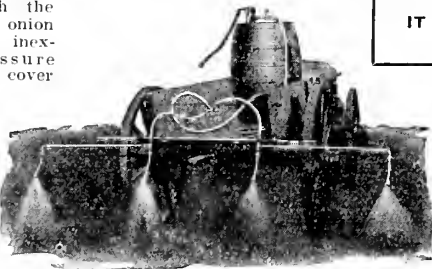


### 4 Row Field Sprayer

A favorite with the small potato or onion grower. It is an inexpensive, high-pressure outfit, which will cover ten to fifteen acres per day. Can be used on any field crop planted in rows. Mount boom on rear of cart or light wagon, high enough to clear rows; mount pump in clean hardwood barrel set in the wagon box. Boom equipped with four nozzles adjustable for rows 32 inches to 18 inches apart. Extension rods carrying nozzles also adjustable, making Boom easy to handle in narrow places. Set rods at right angle to spray grape vines.

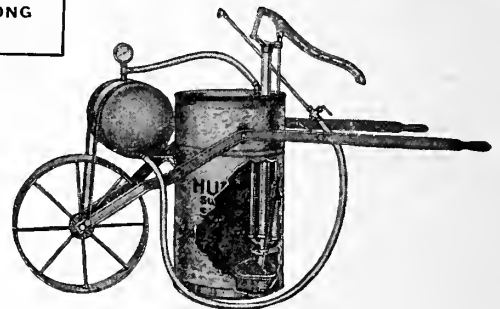
No. 14 SPRAYER—Complete with pump and boom. . . . . \$26.45  
Shipping weight, 57 lbs. F. O. B. Dallas.

No. 27 BOOM, ONLY—Shipping weight, 25 lbs. . . . . \$15.25  
F. O. B. Dallas.



ORDER A GOOD  
SPRAYER.  
IT LASTS A LONG  
TIME.

### Sunshine Sprayer



The ideal sprayer for orchard and greenhouse use, as well as large estates, club houses, dairy barns, hog pens and poultry houses. Can be operated by one man. Reserve air pressure insures even high pressure and uniform discharge at all times. 12½ gallon capacity tank with air pressure tank, (it has been tested under pressure of 275 pounds), fitted with pressure gauge calibrated to 200 pounds. 16-inch wheel, 2-inch tire, 5-foot ¾-inch 5-ply spray hose, 2-foot ¼-inch pipe extension, and angle spray nozzle. Shipping weight, 60 lbs.

No. 37-S SUNSHINE—Galvanized Tank. F. O. B. Dallas. . . . \$27.50

No. 36-S SUNSHINE—Just like 37-S but without pressure tank. Shipping weight, 46 lbs. F. O. B. Dallas. . . . . \$15.75

No. 31 ENSIGN—Like 37-S but without pressure tank and slightly lighter construction throughout. Shipping weight, 40 lbs. F. O. B. Dallas. . . . . \$12.25

### Crank Duster



This duster handles all classes of work one or two rows at a time. Very desirable to dust arsenate of lead, Paris green, lime sulphur, etc. All working parts are mounted on a heavy bar frame. Machine cut gears, semi-enclosed, and brass pinions. Insure easy operation. Four blade high speed fan runs in bronze bearings. Ample air velocity to handle all dusts. Efficient agitation prevents clogging. Powder reservoir holds better than 3 quarts, a capacity of from ¾ to 7 pounds of powder depending on the powder used. Large opening facilitates filling, emptying, etc. Brass indicator adjustable for any volume of discharge. Discharge equipment consists of 3 fourteen-inch tubes, 2 elbows, 1 Wye, 2 nozzles and adjustable carrying strap. Shipping weight, 10 lbs.

No. 603 CRANK DUSTER—F. O. B. Dallas. . . . . \$9.75

### Major Duster



A small hand duster for all types of dust. Powder reservoir 5 inches long, 2¾ inches in diameter, fitted with air valve to keep powder from entering pump. Powder strainer shaped to prevent clogging, and give uniform discharge. Complete with 2 twelve-inch extensions and 2 tips, as illustrated. Shipping weight, 2 lbs.

No. 665 MAJOR DUSTER—F. O. B. Dallas. . . . . \$1.00

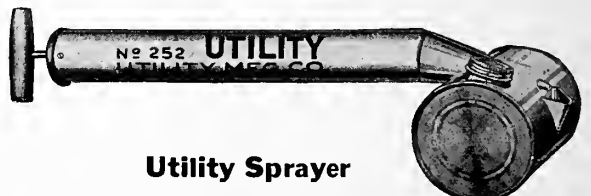
No. 665-A—A Major, with 12-inch flexible hose, for Cyanogas. F. O. B. Dallas. . . . . \$1.10



### Continous Sprayer

An exceptionally sturdy outfit which produces a finely divided continuous spray. Capacity 1 quart. Handles all solutions that are sediment free such as disinfectants, deodorants, insecticides, etc. Shipping weight, 1½ lbs.

No. 432 CONTINUOUS—F. O. B. Dallas. . . . . 75c



### Utility Sprayer

The Utility Sprayer is a universal favorite for use about the house, yard, backyard garden, and poultry house. Sturdy, simple and neat. Shipping weight, 1½ lbs.

No. 452, 1 quart tin hand sprayer. F. O. B. Dallas. . . . . 45c



## Antrol

The Antrol System destroys Argentine and other sweet-eating ants. It will control grease-eating ants by simply placing a small piece of bacon rind in each container along with the Antrol Syrup.

The picture illustrates how Antrol works. The syrup attracts the worker ants. They feed on it and its mild poison is so timed that it allows them to carry it back to the nest for food. It is transmitted to the queen and the entire nest and the whole colony is quickly destroyed. (Cannot be mailed.)



4 Container Antrol sets, F. O. B. Dallas.....	95c
9 Container Antrol sets, F. O. B. Dallas.....	\$1.60
4 oz. Antrol Syrup, F. O. B. Dallas.....	45c
1 Pt. Antrol Syrup, F. O. B. Dallas.....	95c
1 Qt. Antrol Syrup, F. O. B. Dallas.....	\$1.25

## Snarol



Snarol will quickly rid your garden of cutworms, snails, slugs, sowbugs, earwigs and grasshoppers. You simply broadcast about plants and shrubs after you sprinkle them in the evening. The pests eat it and are destroyed. Effectiveness is not lessened by rain or sprinkling. Retains efficiency from ten days to three weeks under ordinary conditions. Harmless to vegetation when used according to directions. Endorsed by nurserymen, agricultural colleges and state institutions throughout the United States. (Cannot be mailed.)

1 lb. Packages, F. O. B. Dallas.....	35c
3 lb. Packages, F. O. B. Dallas.....	75c
15 lb. Packages, F. O. B. Dallas.....	\$3.50

## Stop All Climbing Insects With Tree Tanglefoot

This is a sticky material for applying in bands around the trunks of trees and vines to combat the climbing and creeping type of destructive insect pests. It remains effective three to four months, outlasting ten to twenty times any other material. Easily applied with a wooden paddle. One pound makes fifteen or more lineal feet of bands. Expands with growth of plants.

1 lb. can, F. O. B. Dallas.....	60c
5 lb. can, F. O. B. Dallas.....	\$2.75



## Why Let Insects Gather Your Crops?

YOU DO THE WORK—YOU ARE ENTITLED TO THE HARVEST  
THESE INSECTICIDES WILL HELP YOU INCREASE YOUR PROFITS  
WRITE FOR BIG, FREE SPRAY GUIDE

**ARSENATE OF LEAD**—Very deadly. For use on fruit trees, vegetables, bushes and tobacco. May be used as dust or spray. (Cannot be mailed.) Prices: 1/2 lb. 25c; 1 lb. 35c; 4 lbs. \$1.00; F. O. B. Dallas. Ask for prices in larger quantities.

**BLACK LEAF 40**—A highly concentrated nicotine solution for spraying. Does not injure foliage and is unquestionably one of the most effective poisons on the market against aphids, thrips, leaf-hoppers and many other insects. Used and endorsed by experiment stations and leading growers. (Cannot be mailed.) Prices: Oz. 35c; 5 ozs. \$1.00; lb. \$2.50; 2 lbs. \$3.75; 5 lbs. \$7.00; 10 lbs. \$11.85; F. O. B. Dallas.

**BORDEAUX MIXTURE**—For fungous diseases and mildew. May be used in dry or solution form. (Cannot be mailed.) Prices: Lb. 35c; 4 lbs. \$1.00; F. O. B. Dallas.

**CHIGGER CHASER**—Keeps chiggers off of you. To be dusted on the body or through your clothes. Harmless to the most sensitive skin. A sweet-scented talcum. (Can be mailed.) Prices: 2 ozs. 25c; 5 ozs. 50c. Delivered to you.

**CHIGGER CHOKE**—A dust which will kill every chigger on your lawn. Chokes them to death. (Cannot be mailed.) Prices: 5 lbs. (enough to dust the average 50-ft. city lot) \$1.25; 100 lbs. \$15.00; F. O. B. Dallas.

**DUSTING SULPHUR**—For roses. Splendid for mildew and fungous troubles. Price: 3 lbs. 50c; F. O. B. Dallas.

**GARDEN GUARD**—An insecticide and fungicide for use as a dust. Use on practically all forms of vegetables. Sifter carton. (Cannot be mailed.) Prices: Lb. 25c; 5 lbs. 75c; F. O. B. Dallas.

**PARADICHLORBENZENE**—A government recommended control of the peach borer. Clean gum from the tree trunk and clean ground around the base of the tree. Encircle the tree, two inches away from the trunk with one ounce of Paradichlorobenzene and cover with fine earth. Pack down firmly. (Cannot be mailed.) Prices: Lb. 75c; 5 lbs. \$3.25; F. O. B. Dallas. Write for prices in larger quantities.

## Evergreen

Evergreen is a powerful, non-poisonous insecticide which kills most plant insects. Will not burn, blight or stain the most tender foliage. May be used on fruits and vegetables before eating.

Full directions for its use comes with each container. Write for special information and spray guide, if you wish it before ordering.

We recommend Evergreen as one of the most satisfactory insecticides for general use that we have to offer. Since it is non-poisonous, it may be sent through the mails.

1 oz. bottle.....	35c
6 oz. bottle.....	\$1.00

**EVERGREEN**  
KILLS ANTS AND GARDEN INSECTS

16 oz. bottle.....	\$2.00
32 oz. bottle.....	3.50
1 gallon.....	11.50

All Prices F. O. B. Dallas

## Kill Them With Cyanogas

A puff or two of this effective material in the rat-hole, produces immediate death. Cyanogas gives off a deadly gas that penetrates the burrow and kills every rat. That's all there is to it.



KILL THEM WITH **CYANOGAS**

Cyanogas must not be used in a building that is inhabited. When used around poultry houses, make certain that the fowls are removed from the immediate vicinity—not to be returned until two hours after the Cyanogas has been applied.

Also absolutely effective in killing ants, mice, grasshoppers, locusts, pocket gophers, wax moths, diseased bee colonies, groundhogs and woodchucks, flies in dairy barns, fleas in yards and open buildings, ground squirrels and prairie dogs, sparrows, starlings, pigeons, wild bees and moles. Full instructions come with each package. (Cannot be mailed.)

1/2 lb. tins.....	45c	25 lb. tins.....	\$10.00
1 lb. tins.....	75c	100 lb. drum.....	\$30.00
5 lb. tins.....	\$3.00	All Prices F. O. B. Dallas.	



## \$1,000 Guaranteed Roach Killer

Absolutely guaranteed by the manufacturer to kill roaches and water bugs when properly applied. Roaches, water bugs and black beetles like and eat this powder. It is odorless and clean. 3 ounce package, postpaid.....35c



**DRY LIME AND SULPHUR**—Lime and sulphur converted into a dry powder. For use in dormant spraying against scale, peach-blight, leaf-blight, leaf-eurl and twig borer. Summer spray against scab, soot, blotch, red spider and mite. (Cannot be mailed.) Prices: Lb. 35c; 5 lbs. \$1.50; 10 lbs. \$2.50; F. O. B. Dallas.

**PARIS GREEN**—A powerful poison carrying sure death to insects of the eating type. (Cannot be mailed.) Prices: 1/4 lb. 20c; lb. 60c; F. O. B. Dallas.

**SPRAY SOAP**—Ideal for use with insecticides needing a spreader, and also used as a wash preventing spread of scale. Prices: Lb. 35c; 5 lbs. \$1.50; F. O. B. Dallas.

**LUBRICATING OIL EMULSION**—Recommended by the government for a fall and early spring spray for orchards. It controls camphor scale, San Jose scale, white-fly, purple scale, mealy bugs and other scale insects; also plant-lice and red spider. Prices: Qt. 35c; 1/2 gal. 65c; Gal. \$1.00; 5 gal. \$4.50; 55 gal. drum, 75c per gal; F. O. B. Dallas.

### HOUSE AND DAIRY FLY CONTROL

**FLYROL**—A household insecticide, which absolutely controls the common house fly, mosquitoes, moths, etc. Price: Pt. 40c; F. O. B. Dallas.

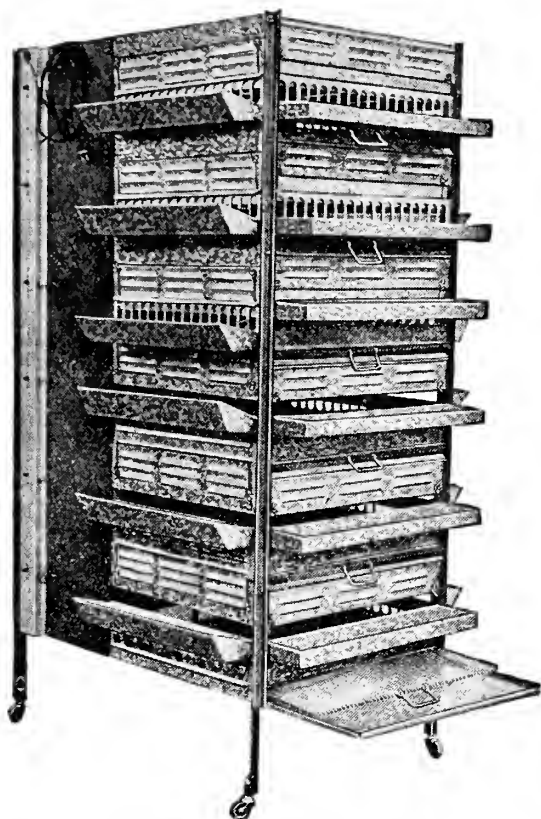
**DAIRY BRAND FLYROL**—A control of the troublesome dairy pests—very good and exceptionally reasonable in price. Prices: 1/2 gal. 75c; Gal. \$1.25; F. O. B. Dallas.

**ZIP HOUSEHOLD SPRAY**—Kills all types of insects instantly. Exterminates pests such as flies, moths, roaches, lice, bed-bugs, ants, gnats and other germ carrying insects. Harmless to men and beasts and will not stain or discolor clothing or fine fabrics. Pleasant odor. Prices: 8 ozs. 30c; pt. 45c; qt. 75c; gal. \$2.50; F. O. B. Dallas.

**ZIP CATTLE SPRAY**—Proven to be the most effective cattle spray on the market. Prices: 1 gal. \$1.75; 30 gals. \$1.50 per gal.; 55 gal. drum \$1.35 per gal.; F. O. B. Dallas.

The government does not permit the mailing of poisons. Therefore they must be shipped by express or freight.





## Magnolia Insulated Battery Brooder

Economy of operation—simplicity and beauty of design—ease of handling—sturdiness of construction—adaptability to general needs—all combine to make this an outstanding brooder value.

Whether you are wanting an electrically or oil heated battery brooder, the Magnolia Insulated battery brooder will meet your requirements.

**ARE YOU SELLING BABY CHICKS?** Then note the ease with which they are displayed. Feeders and waterers are hung outside. The chicks must have their heads through feeding holes. Proper adjustment makes it impossible for them to push their bodies through. The mere turning of a screw permits front or sides to swing open for easy removal or full display of chicks. The screen floor, to which a false back is attached, pulls forward bringing all chicks within easy reach from the front or sides. This brooder is unequalled for display purposes.

**AS A BROILER RAISING BROODER**, this battery saves hours of time for the operator. Individual automatic drawer control of heat makes it possible for each compartment to be held at the right heat—resulting in economy in fuel consumption. Removable dropping tins make short work of the daily "clean-up." The turn of a screw permits the easy adjustment of feeder hole size. Outside feeders and waterers simplify feeding and watering. As compared with inside feeding and watering devices, we call your attention to the following facts about outside equipment:

1. Utter impossibility of chicks getting into either feed or water.
2. Large capacity of outside feeders, impracticable for inside feeders because of insanitation and loss of feed inside.
3. Convenience of refilling.
4. Inability of chicks to escape when feeders and waterers are removed for refilling.
5. Ease of adjustment of height of feeders to meet the needs of growing chicks. Inside types cannot be raised.

Many battery brooders are so complicated to set up that eight or more hours are lost in assembling. The Magnolia Insulated goes together, according to instructions sent with each shipment, in thirty minutes, for it is practically assembled before shipping; yet you get the advantage of a low knock-down freight rate in shipping.

**MAGNOLIA INSULATED BROODERS** are built to last a life-time. The frame, compartments, feeders and waterers are made of unusually heavy materials and are carefully reinforced. The insulated section is made of Masonite—the best of the insulating materials. Screen floors are made of heavy, durable wire, rust-proof, which will last indefinitely.

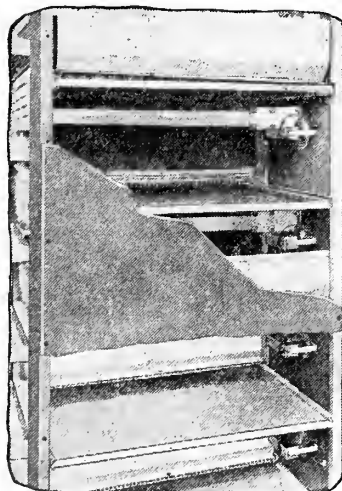
The inside measurement of each compartment is 26x42 inches of which space, 26x14 inches are insulated. Chicks have ready access to the insulated brooding space through a heavy slitted curtain.

The electrically heated type of Magnolia Insulated Brooder is heated with a 150-watt strip element, automatically controlled, one element and control to each compartment. The consumption is extremely low—only 1½ K. W. for four compartments and 2¼ K. W. for six compartments (per 24 hours) in a room averaging 60 degrees.

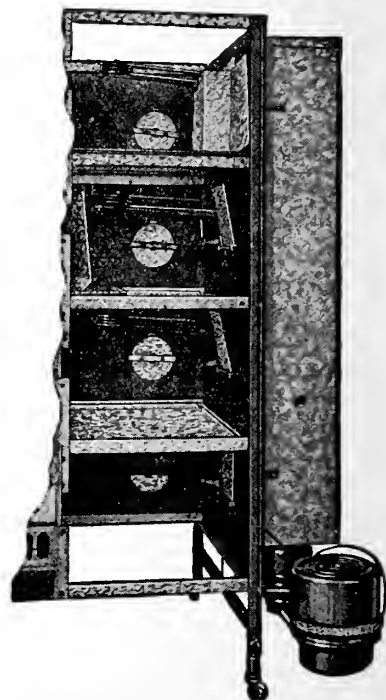
**THE OIL HEATED TYPE** operates by admitting heated air into the compartments through thermostatically controlled intakes. No gas or fumes can enter. The design of the heater manifold has been very carefully perfected so that each compartment receives its share of heat. Our illustration proves the simplicity and ruggedness of the assembly. It is easily regulated, both as regards the height of flame and the individual compartment temperature. Uses our own Blue Flame Wickless Burner with special control built for this work.

Because of the Masonite Insulated Brooding compartment, hatcherymen and poultrymen find it ideal for store use, and are relieved of the necessity of having special rooms for heating equipment. The scientific design of the brooder guarantees a rapid, healthful growth and makes possible the handling of more chicks with considerably less time, labor and cost. Painsstaking research into the practical requirements of this brooding method has made possible the many exclusive features of this design—features which account for a performance standard not found elsewhere.

This brooder was introduced to our trade last year and it immediately gained favor among them. The Peterson Poultry Farm of Crosby, Texas, placed them with several of their good customers, and report absolute satisfaction. Throughout our territory the same report has come. In the City of Dallas there are ten of these brooders in operation at the present time, and we have yet to receive a complaint on this brooder of a serious nature. It is a money-maker for its owner and you will find it valuable for you also.



Cut Out—Showing Electric Equipment.



Cut Out—Showing Heating Unit On Oil Brooder.

Catalog No.	Size	Day Old Chick Capacity	Type Heat	Shipping Weight	F. O. B. Dallas Price
P2-54-E	4 COMPARTMENT	480	ELECTRIC	243 lbs.	\$63.50
P2-66-E	6 COMPARTMENT	720	ELECTRIC	340 lbs.	85.00
P2-54	4 COMPARTMENT	480	OIL	270 lbs.	62.50
P2-66	6 COMPARTMENT	720	OIL	370 lbs.	84.00

## Finishing Batteries

Increase your profits—and make selling easy. Battery raised poultry, as well as range raised poultry should be fattened for a week to ten days before selling.

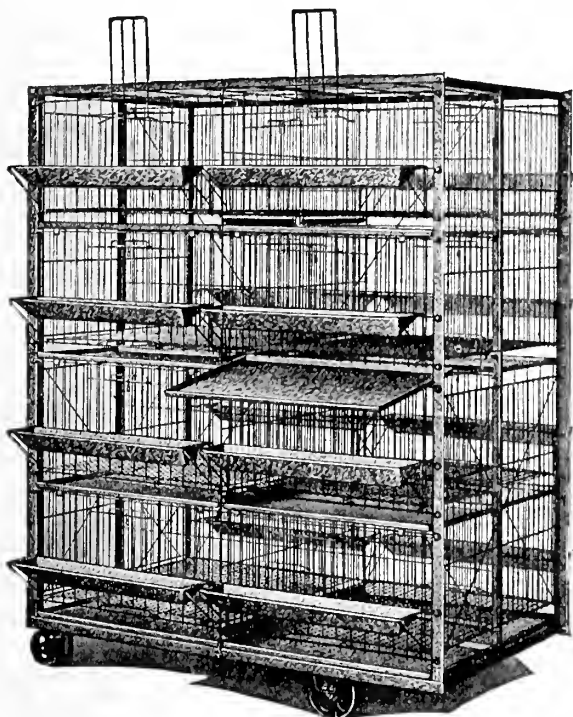
### 8 Compartment—80 Hen Battery

This battery is ideal for broiler plants and retail dealers handling live poultry. It furnishes a handsome display for your poultry, and when filled with good stock, invariably increases sales. It takes a minimum of time and effort to clean. Both floors and pans are removable. Troughs permit feeding from the front of the battery.

The battery is light, yet rigidly and durably made, from high quality galvanized steel throughout. Compartments are 14½ inches high inside dimension. Height 70 inches; length 48 inches; width thirty inches. Spacing between wires, 1¾ inches. Troughs are 4 inches wide and 23 inches long, made of good galvanized metal. Truck is made of heavy angle iron and equipped with two 4-inch swivel casters and two 4-inch stationary wheels.

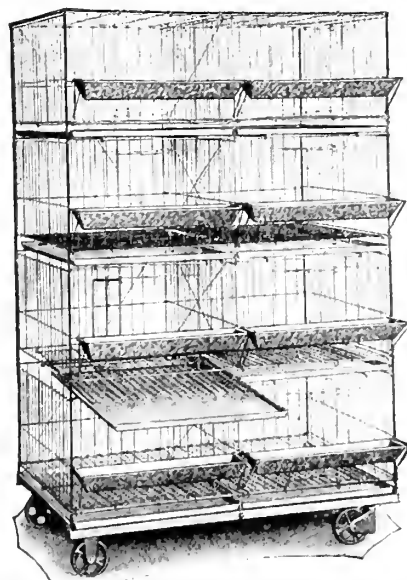
No. 1237 BATTERY—Shipping weight 218 lbs. Each, F. O. B. factory in Kansas... \$30.00  
10 or more..... 27.00

### 8 or 16 Compartment Magnolia Battery



16 Compartment Magnolia Battery.

The construction of this battery will make it outlast any other finishing battery on the market from five to ten years. It is electrically welded. Note corner angle irons which are turned out so that pans and floors can be easily removed for cleaning. The feeder of a small flock usually prefers the No. 1235, 8 compartment battery, although many large feeders also use the smaller battery, due to its being easily moved about, and backed against a wall. It is just like illustration, except that it does not have the 8 compartments on the back side, as illustrated. Comes either in hen mesh (1-15/16 inches) or broiler mesh (1½ inches).



8 Compartment—80 Hen Battery.

### 8 Compartment Battery

No. 1235 BATTERY—76½x54x27 in size, each section 15 inches high; troughs 23 inches long; truck made of heavy angle iron, supplied with 2 5-inch swivel casters and 2 6½-inch stationary wheels, hen mesh. F. O. B. Factory in Kansas. Each..... \$38.00  
In lots of 5 or more. Each..... 36.00

No. 1235-B—Same battery except with broiler mesh. F. O. B. factory in Kansas. Each..... \$39.00  
In lots of 5 or more. Each..... 37.00  
EXTRA METAL TROUGH—Each..... .45

### 16 Compartment Battery

No. 1236 BATTERY—77½x62½x37 in size, each section 15 inches high; troughs 28½ inches long; truck made of heavy angle iron, supplied with 2 5-inch swivel casters and 2 6½-inch stationary wheels, hen mesh. F. O. B. Factory in Kansas. Each..... \$50.00  
In lots of 5 or more. Each..... 47.50

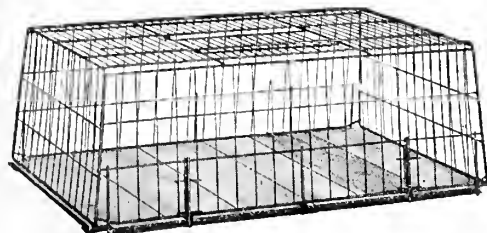
No. 1236-B—Same battery except with broiler mesh. F. O. B. factory in Kansas. Each..... \$51.00  
In lots of 5 or more. Each..... 48.50  
EXTRA METAL TROUGH—Each..... .45

## Feeding or Shipping Coop

Poultry is sure to arrive at its destination in good condition when trucked in these coops. Durable and rigid construction of coops, give maximum protection in transit and employees like the coops because they are easy to handle. Bottoms attach easily. Simply slide two clips into cut-out sections of bottoms, the clips being held in place at top by brace wires. Size 27x41x14 inches; weight 30 lbs.

No. 1204, BROILER or CHICKEN COOP—F. O. B. Kansas factory, Each..... \$2.75

SEE PAGE 61 FOR CUPS FOR FEEDING COOPS.



Feeding or Shipping Coop.

## Exhibition Coops

The kind that show your birds to the best advantage. Made from best galvanized steel wire. Each of the wire sections has a frame electrically butt welded at the joint, making it a continuous piece. Cross wires are electrically welded to the frame.

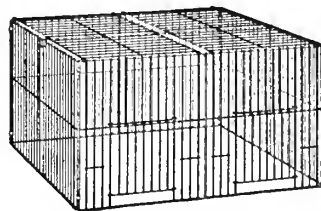
SINGLE—Size, 22x22x27 inches; weight, 12 pounds..... \$1.75

DOUBLE—Size, 48x24x27 inches; weight, 20 pounds..... 3.25

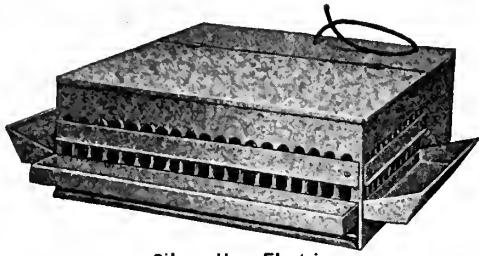
TURKEY—Size, 36x36x36 inches; weight, 30 pounds..... 4.50

PARTITIONS—Weight, 3 pounds (Prices F. O. B. Dallas)..... .45

SEE PAGE 61 FOR CUPS FOR EXHIBITION COOPS.



Exhibition Coops.



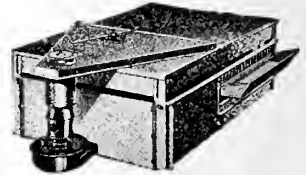
Silver Hen Electric.

This brooder will care for 80 day old chicks, but the quantity placed in the brooder should be reduced regularly, as the chicks grow.

A rack for six units is available at moderate cost and makes up a reasonably satisfactory battery brooder. Inside dimensions, 24x30 inches.

Electrical equipment for 110 volt current includes thermostatic control and strip element, 10 feet cord and plug. Bulb type comes with 10 feet of cord and plug, but without bulb. Lamp heated equipment is slightly different in construction, being adjustable as to head size, and is thermostatically controlled.

No.	Type	Shipping Weight	F. O. B. Dallas Price
C2-1330	STRIP ELEMENT ELECTRIC	.26 lbs.	\$10.25
C2-1335	BULB HEATED ELECTRIC	.25 lbs.	7.95
C2-1430	OIL HEATED	.28 lbs.	10.25
C2-16	RACK FOR 6 SILVER HENS	.45 lbs.	12.25
VIOLET HEAT BULBS FOR BROODER			Each 75c; Dozen 8.50



Back View—Oil Heated Silver Hen.

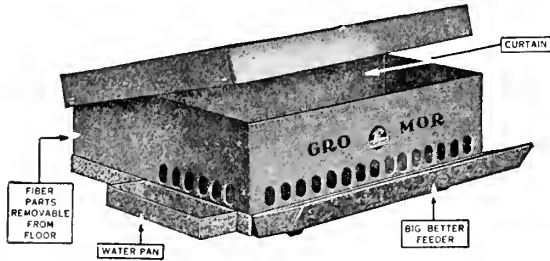
## Gro-Mor Brooders

This little brooder is fine for a small lot of chicks, or may be used in a heated room in considerable numbers.

Made of fiber board, with wire screen floor; durable and waterproof. Equipped with feed and water pans. The box is removable and can be replaced at nominal cost. Inside dimensions are 20 inches by 24 inches by 7 1/2 inches high, giving ample head room for chicks three to four weeks old.

The illustration shows all details of construction, excepting the optional electrical equipment which consists of ten feet of cord, porcelain socket terminal plug, and circulating drum to enclose the bulb. Bulbs not furnished.

	Shipping Weight	F. O. B. Dallas Price
GRO-MOR ELECTRIC BROODER	.9 lbs.	\$2.50
GRO-MOR BROODER (not electric)	.8 lbs.	1.90
SPECIAL HEAT BULBS	Each .75; Doz.	8.50

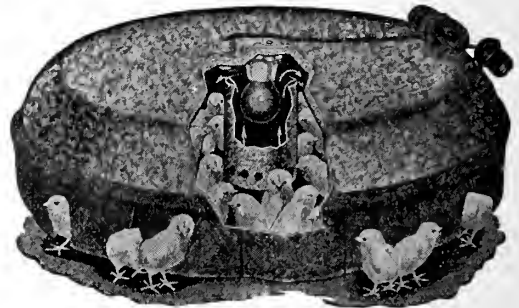


## Junior Electric or Oil Heated Brooders

For small flocks this type of brooder is economical and practical. We illustrate the electric type, but it comes also in oil heated equipment.

For general use a 25-watt bulb provides ample heat, and with outside air touching freezing, a 40-watt bulb will maintain brooding temperatures. A galvanized steel drum encloses the bulb or oil lamp, preventing glare and producing steady circulation of the air throughout the brooder. The shell, canopy, is drawn of the best "Tite-Coat" Galvanized Steel, insulated with highly finished Masonite, which withstands long and hard use. The heavy, hemmed curtain is slit for chick convenience, and may be easily removed for cleaning. Packed complete with 10 feet of cord and screw plug, in strong shipping carton. The bulb is not furnished.

Size	Chick Capacity	Shipping Weight	F. O. B. Dallas Price Each
22-INCH JUNIOR ELECTRIC BROODER	60	8 lbs.	\$3.75
25-WATT BULB			.75
22-INCH JUNIOR OIL HEATED	60	10 lbs.	4.50



Junior Electric.

## Putnam Brooder Heaters

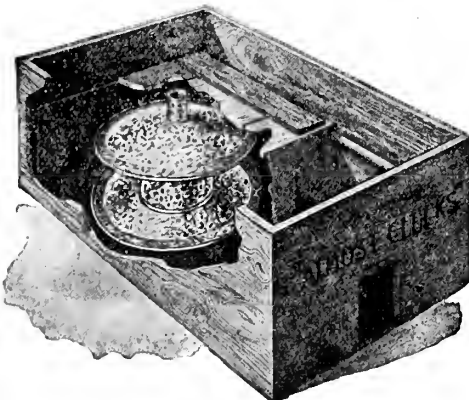
BURNS 10 DAYS WITHOUT ATTENTION

The Putnam Brooder Heater is one of the most popular and satisfactory small brooder heaters on the market. The home-made brooder shown may be built from a few cents' worth of material by any boy and no tools are required except saw and hammer. Plans for building this brooder are packed with every brooder heater. The brooder accommodates from 35 to 60 chicks. Burns oil.

Price, delivered to you	\$4.75
Wicks for Putnam Brooder Heater, each .05; dozen	.40
Wicks and Holders, each	.20
House Plans for Putnam Brooders	1.00

## Hatcherymen, Please Note!

After most of this catalog had gone to press, we closed arrangements with the manufacturer of the Gaylord shipping boxes, to handle their box for the shipment of three-week-old chicks. Prices are available for these boxes now, and if you are interested, send us an inquiry, and they will be quoted you. Please be sure to state the quantity of boxes desired. They come in 24 and 48-chick size, and are packed in bundles of 25. We do not break bundles.



## Magnolia Ker-O-Stat Brooders

THE ONLY SUCCESSFUL AUTOMATIC BLUE FLAME BROODER

The Magnolia Ker-O-Stat Automatic Oil Brooder for 1932 presents the greatest brooder value on the market. The automatic pilot light and the full thermostatic control afford completely automatic operation, without danger of the flame going out. On warm days, there is no heat generation; but the pilot light, of improved construction, stands guard to relight the burner the moment outside temperatures drop.

The Ker-O-Stat stove is of the most advanced type—no wick, no gas and no fumes. The burner is completely guarded by a heavy steel shell and by a closely woven heavy wire screen and deflecting pan, which prevents the heat from striking the canopy ring. Below the burner is a deflecting pan, which keeps heat from reaching the floor or litter. The burner will last indefinitely, and the special long inner tube gives it an unusual flame range. High quality wire woven asbestos lighting rings make it possible to light the Ker-O-Stat without the necessity of dangerous gasoline priming.

The patented thermostatic control is affected only by temperatures, and operates by automatically raising and lowering the entire burner in the constant oil level established in the reservoir.

There are no complicated needle valves, no floats, no sliding joints. A new type mounting of the thermostat bracket arm permits closer fitting of the regulator assembly. It is simple, positive and sturdy—and is completely armored by a heavy steel shell. The convenient tip back bracket enables you to stand the canopy up out of the way.

The size of the oil pipe line has been increased from 3/4-inch to

Size	Chick Capacity	Shipping Weight	Heater Only	Canopy Only	Complete
35-inch.....	150	36 lbs.	\$10.95	\$3.35	\$13.00
45-inch.....	250	47 lbs.	10.95	5.00	14.50
55-inch.....	500	53 lbs.	13.25	5.95	16.00
Lighting Rings for above (be sure to state size wanted).....					
.15					



3/4-inch. The pipe line is a solid, one-piece brazed unit, including the reservoir, connecting pipe and burner bowl. A drain plug at one end, and a two-way feed into the burner bowl, gives safety from clogging. All Ker-O-Stat parts are enclosed and protected by a solid welded unit of heavy sheet steel, finished in a high gloss enamel.

Oil Reservoir.....	1.25
Bail for Reservoir.....	.30
Pilot Wicks, each.....	.15
Oil Valve for Reservoir.....	.40
Band for Reservoir.....	.30

Prices, F. O. B. Dallas

## Magnolia Simplicity Brooders

A MARVELOUS VALUE AT THE PRICE

The construction, appearance, reliability and ease of operation make the Simplicity Oil Brooder an outstanding value among the Blue Flame Brooders.

The flame control is simple, sturdy, and cannot wear out. It automatically maintains the flame at the point desired, without valves, floats or sliding joints. The new and heavier 3/4-inch oil pipe line, with a cleanout plug at the end, is brazed from one end to the other to make it positively and permanently leak-proof.

The Simplicity burner, originally developed especially for brooder use, is this year equipped with a finer, two-piece burner shell. The wire weave lighting ring, eliminates the bother and danger of gasoline priming. The "never-out" pilot light permits brooder to be turned off during warm days, and started again at night, without relighting. A new heat deflecting shield is secured below the burner to protect the floor, and a die drawn steel body, finished in enduring and lustrous enamel encloses and protects all parts.



Size	Chick Capacity	Shipping Weight	Heater Only	Canopy Only	Complete
35-inch Simplicity.....	150	31 lbs.	\$8.50	\$3.35	\$10.00
45-inch Simplicity.....	250	40 lbs.	8.50	4.50	11.25
55-inch Simplicity.....	500	49 lbs.	9.25	5.45	12.50
Pilot Wicks, each.....					
.15					

Lighting Rings (be sure to state size wanted), each.....	.15
Oil Reservoir.....	1.25
Bail for Reservoir.....	.30
Oil Valve for Reservoir.....	.40
Band for Reservoir.....	.30

Prices, F. O. B. Dallas

## Magnolia Gas Brooders

The Magnolia Gas Brooder is built for use in those localities where natural or artificial gas is available to the poultryman. For 1932 this brooder is provided with the embossed hexagonal canopy, firmly supported on legs. The Automatic Valve construction has been held to close limits, and every precaution taken by our engineers to insure perfect operation. The burner and its installation are especially designed for use with either natural or artificial gas, and give perfect combustion with either one.

Size	Chick Capacity	Shipping Weight	Price Each
29-in. Gas Brooder Automatic.....	150	22 lbs.	\$ 8.40
45-in. Gas Brooder Automatic.....	250	25 lbs.	10.40
55-in. Gas Brooder Automatic.....	500	32 lbs.	11.40
Automatic Gas Valve only.....		2 lbs.	3.50

Prices, F. O. B. Dallas.



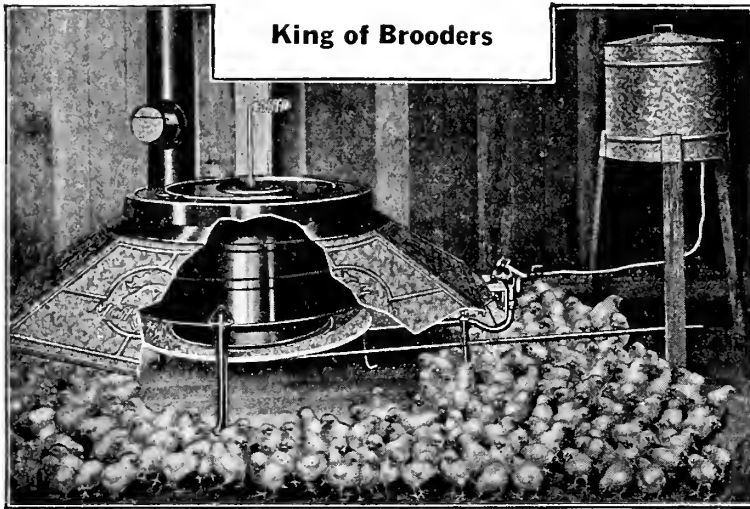


## Magnolia Standard Oil-O-Stat Brooder

The Magnolia Standard Oil-O-Stat offers maximum protection for brooding your chicks. It is so simple in operation and so well controlled that to date it has met the need of all users. It is one brooder on which we have had no complaint. Heavy metal (20 and 22-gauge) is used in the stove. A heat deflecting pan is provided under the stove, absolutely preventing overheated floors. Floor temperature under the stove is about the same as at the wafer. It is practically impossible to raise it above 150 degrees. No sand ring is used

or needed. Sixty inches of flexible copper tubing is furnished for use between the valve and the fuel tank, permitting installation of brooder with tank almost anywhere, inside or out. A filter, placed in tank outlet, excludes all dirt from pipe line.

Available both with and without canopy. When ordered with canopy, the new, larger and handsomely embossed hexagonal canopy is supplied.



King of Brooders

### Remember These Points

1. The Oil-O-Stat burns distillate or furnace oil and immediately saves you from one-third to one-half of your fuel bill over kerosene burning brooders.
2. Exclusive baffle chutes make the flame travel 18 feet.
3. The Twin Blast burner needs no priming with kerosene and simply WON'T GO OUT.
4. The Oil-O-Stat has limitless heating range.
5. The Oil-O-Stat ventilates as well as heats the brooder house.
6. Its automatic draft adjuster increases its economy of operation.
7. It eliminates all fire hazards.
8. The die-cast shell contains a sediment trap and includes a glass through which you can see the oil feed.
9. The Oil-O-Stat is entirely free from smoke or gas.
10. It is sold at a price which brings it within the reach of everybody.

This is the ideal brooder for room heating or larger flock brooding. We recommend the Senior type, without canopy for room heating, if the room is large. If an ordinary-sized brooding room, then the Magnolia Standard, either with or without canopy will be absolutely satisfactory.

Remember—the Oil-O-Stat will heat in coldest weather, will automatically maintain temperatures within a few degrees and needs very little care. Its heating drums are oversize and baffled to get greater efficiency. The heat travels three times around in the Magnolia

	Chick Capacity	Shipping Weight	Price Each
Magnolia Standard, without Canopy	80 lbs.	80 lbs.	\$26.00
56-in. Magnolia Standard.....	600	100 lbs.	29.75

Standard model. Drum easily comes apart for after-season cleaning. The Oil-O-Stat comes complete with galvanized pipe cut and fitted, 8-gallon tank with screen, and automatic valve. No smoke pipe furnished.

	Chick Capacity	Shipping Weight	Price Each
65-in. Magnolia Standard.....	1000	110 lbs.	\$32.00
Magnolia Senior.....		110 lbs.	33.75

F. O. B. Dallas

### Just a Few Comments on the Oil-O-Stats

Houston, Texas, December 2, 1931.

Sherman-Magnolia Seed Co.,  
P. O. Box 5295,  
Dallas, Texas.  
Gentlemen:

The Oil-O-Stat and Waste-Not Chick Feeders that you shipped to Mr. Cain, I would like to say, are the finest poultry equipment that I have yet seen. I have two 1,000 chick brooders of another make that I plan to sell just as soon as I can, and I shall then order two Oil-O-Stats.

Respectfully,

H. B. AMICK.

Mr. Amick is a breeder and hatcheryman of high standing in his community and we appreciate what he says about the Oil-O-Stat.

Sherman-Magnolia Seed Co.,  
Dallas, Texas.  
Gentlemen:

The Senior Oil-O-Stat arrived and has been put into use. We are heating a house 20x22x10 feet with it perfectly satisfactorily. We keep the temperature 74 all the time and have 2,000 chicks in the house in storage brooders, which we are raising for the broiler market.

Enclosed please find check for which send another gallon of cod liver oil. This pays for a gallon shipped me several days ago, and the one I am ordering now.

Yours truly,

Georgetown, Texas,  
November 25, 1931

DAVID J. MORRIS.  
Mr. Morris is the owner of the Georgetown Hatchery and a poultryman of much experience. His word is absolutely dependable.

### Standard Coal Brooders

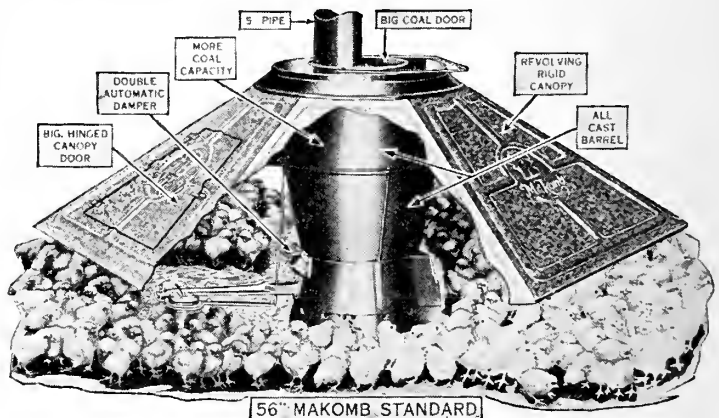
A leader, not alone in quality—but in price. Check this brooder, point by point, and you will find UNEXCELLED VALUE.

The large over-sized barrels give increased radiating surface, and improved appearance. Lower damper, offset in cage, prevents possibility of ashes dropping on floor. New hexagonal canopy, of greater strength, with ring of heavy drawn steel, can be turned to any position. Big hinged door is provided in one section. The large Coal Door on top permits coaling direct from the scuttle. Shaker and Thermostat adjustment are easily accessible, through the revolving canopy.

The exclusive and unusual damper action makes the Standard remarkably dependable in operation. When the stove is forced, the lower damper is wide open to admit air under grates, while the upper check damper is closed. The check damper consists of two dampers cast together, operating as a unit. When the Automatic Control brings the check damper into operation, it works in two ways. The inner check damper rises into the flue opening and obstructs the draft, while the outer check damper opens to admit a checking flow of air above the fire and directly into the flue. This unusual design produces a positive checking action.

	Chick Capacity	Coal Capacity	Shipping Weight	Price Each
47-in. Standard .....	450	40 lbs.	75 lbs.	\$14.00
56-in. Standard .....	600	50 lbs.	90 lbs.	17.00
65-in. Standard .....	800	60 lbs.	110 lbs.	20.00

F. O. B. Dallas



Magnolia Standard Coal Brooder.



## Magnolia Elect-O-Stat

THE ONE ELECTRIC THAT DEFIES COLD ROOMS

This fine model may be used anywhere that heat is needed for brooding chicks—whether much or little heat is required. Read the following special points which enable the Elect-O-Stat to meet all heating requirements:

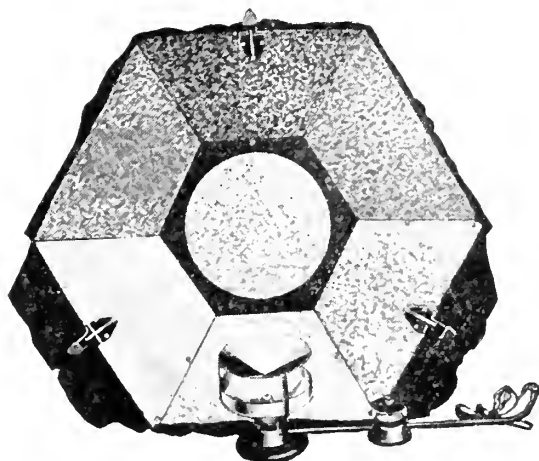
1. Clear, all metal interior, with radiating and heat reflecting surfaces on under side of canopy, conserve and increase the work of the heating unit.
2. Thorough insulation ON TOP of canopy, insulates, but cannot absorb heat.
3. Positive and instantaneous switch action prevents arcing and pitting of points. No radio interference.
4. Forced circulation of air beneath canopy, prevents sweating.

To conserve the electrically generated heat, the canopy is insulated outside with genuine Masonite, the finest and most efficient insulating medium of its type. The clear, all galvanized steel interior of the canopy reflects and radiates the heat. The canopy is shipped knocked down, at a considerable saving in freight and original cost to you.

Our new heating unit saves approximately 50% of the current formerly required to operate electric brooders. The heater combines the use of RADIANT and CIRCULATING heat in an entirely new way. Circulation of air through the heater, cools the glowing element, lengthening its life and minimizing the possibility of burning out under hard and prolonged use. No pilot light is necessary as light is provided by the glowing element, producing Infra Red rays, which closely approach the Ultra Violet rays in their healthful properties. Socket will accommodate almost any screw type element and permits the use of a large bulb in an emergency.

Heater and Switch Assembly may be used under any canopy, and is sold as a separate unit. Guaranteed for one year against failure during operation. A powerful heater and a fully insulated canopy enable this, and this electric brooder only, to do its work in very cold rooms.

DeLuxe Electric Brooders come complete with thermometer and cord, ready to put into socket.



Elect-O-Stat.

Size	Capacity	Shipping F.O.B. Dallas	Weight	Price
17-inch Canopy.....	200	44 lbs.		\$18.50
56-inch Canopy.....	400	52 lbs.		22.50
65-inch Canopy.....	600	62 lbs.		27.00
Heater Assembly only.....		15 lbs.		12.00

## Cel-O-Glass

For Poultry Houses — Coldframes — Hotbeds — Hog Houses — Porches  
BRINGS ULTRA-VIOLET RAYS INDOORS

**IN POULTRY HOUSES:** Cel-O-Glass in poultry houses brings poultry health to chicks, layers and breeding stock. Keeps houses warmer and drier. Brings indoors the vitalizing ultra-violet rays which kill bacteria, prevent the spread of disease and increase egg production.

**IN HOMES:** Installed in one or two windows, or on porches, Cel-O-Glass brings health to young or old in winter by bringing the sun's ultra-violet rays indoors. These rays prevent rickets in young children, and build a real barrier against winter ailments.

**ON COLDFRAMES AND HOTBEDS:** 10 per cent to 15 per cent higher temperatures are averaged under Cel-O-Glass sash than under ordinary sash, and plants are ready one to two weeks earlier than when grown under ordinary conditions. Cel-O-Glass sashes are easy to handle, are light in weight, and cannot shatter in bad weather.

**IN HOG HOUSES AND DAIRY BARN:** Cel-O-Glass in hog houses keeps hogs sun-fed in winter when growing pigs and breeding sows must be shut up and protected from the weather. Prevents stiff legs in swine and brings the disinfecting qualities of sunlight into dairy barns.

"The Cel-O-Glass Laying House."

"Cel-O-Glass for Coldframes and Hotbeds."

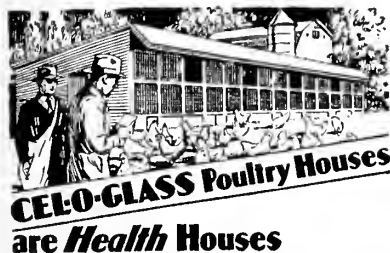
"The Cel-O-Glass Hog House."

"Winter and Your Back Porch."

F.O.B. Dallas

Rolls, 100 feet long by 3 feet wide (300 square feet), 42 lbs., \$40.50

Per square yard—3 linear feet by 3 feet wide..... 1.35



**ON PORCHES, STORM DOORS AND STORM WINDOWS:** Cel-O-Glass makes health porches out of ordinary porches, keeps homes warmer in winter and saves fuel bills. Cel-O-Glass storm doors and storm windows do not break in bad weather and keep interiors warm.

Write for any of the following booklets (each of which contains blue prints and full directions for construction):

"The Cel-O-Glass Portable Health Brooder House."

## Magnolia Fibre-Free Poultry Litter

This litter promotes exercise, cleanliness, and helps control the temperature and humidity of the poultry house.

Our Litter is selected from the highest grade of peat. It is dug from the central beds of the peat deposit belt in Germany. After drying in the sun for 12 to 15 months, practically all fibre is removed and it is ground and graded over screens. The portions best suited for litter are put up into well compressed bales. When opened and broken up, this moss increases greatly in volume and one bale is sufficient to cover a floor area of at least 80 square feet, three inches deep.

Here are some of the reasons why Magnolia Fibre-Free Poultry Litter is demanded:

1. **It Is a Labor-Saver.** It lasts for months.
2. **It Prevents Dampness,** because of its great absorbing power. It will absorb several times its own weight of water.
3. **It Is Sanitary.** Laboratory tests have shown it to be remarkably free from bacterial and parasitic life.
4. **It Prevents the Spread of Disease** by keeping the house dry and clean.
5. **It Absorbs Offensive Odors,** keeping the atmosphere of the house clean and pleasant.
6. **It keeps the House Warmer In Winter** by acting as an insulator. It keeps the birds off the cold, damp floor.
7. **It Is Economical.** Though the original cost may be slightly higher, it outlasts other litter two or three times, and saves the labor of handling.
8. **It Provides a Light, Springy Mat for the Birds.** Heavy birds do not injure themselves when alighting, thereby reducing bumble feet and lameness.

9. **It Prevents Fire,** because it contains practically no fibre. It takes an intense heat even to make Magnolia Fibre-Free Poultry Litter smoulder, and it will never blaze.

10. **It Makes a Valuable**

**Fertilizer.** Not only does it

preserve the plant-food value of the droppings, but the organic matter in peat moss itself is highly beneficial to the soil.

Magnolia Fibre-Free Litter, because it is free of fibre, absorbs better, can be used longer, is practically fire-proof and makes a splendid fertilizer. Per bale of approximately 150 pounds.....\$3.75  
Small bales, approximately 50 pounds.....\$1.75

F. O. B. Dallas

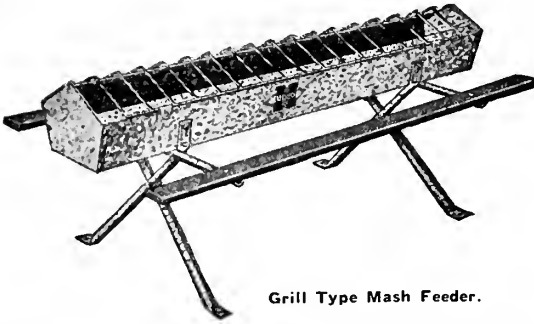


## Grit, Oyster Shell and Charcoal

Laying hens need about three times as much lime and mineral matter as is furnished in grain and meat food. If this is not supplied there will be fewer eggs or soft-shelled eggs. Grit is the hen's teeth; oyster shell helps furnish lime for egg shells; charcoal is an absorber of gas. It aids digestion, sweetens the digestive tract and helps keep the bowels in good condition.

	5 Lbs.	10 Lbs.	50 Lbs.	100 Lbs.
GRIT (Designate fine or coarse).....	20c	30c	\$1.15	\$2.00
OYSTER SHELL (Fine or coarse).....	20c	30c	1.15	2.00
CHARCOAL (Fine or coarse).....	45c	75c	2.50	4.50

Prices F. O. B. Dallas



Grill Type Mash Feeder.

### Grill Type Mash Feeder

A high grade, substantial, yet inexpensive feeder for growing birds and full grown stock, suitable for dry mash, grains, shells, grits and other feeds.

This type of feeder has rapidly become the leading grown flock feeder because it is practical. There is almost no food waste and the raised perches are ideal for exercising your hens.

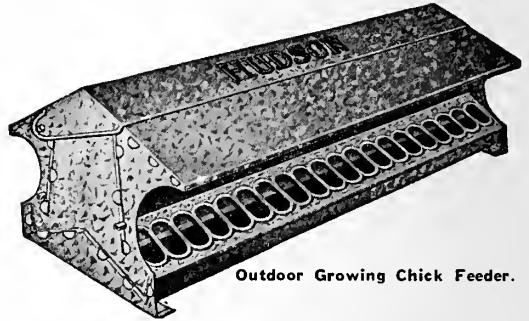
Our feeder is sturdily built of heavy galvanized iron, 9 inches wide, 7 inches deep and 48 inches long. It provides 8 feet of feeding space. All edges folded double thickness for strength and to avoid sharp surfaces. Furnished with or without base. Wood perches are stained with water and mite proof dip. Grill is hinged for easy cleaning and filling. Feeder is ready for use on arrival by attaching base.

No.	Item	Shipping Weight	F. O. B. Dallas
G45	Grill type feeder with perch and stand.....	11 lbs.	\$3.60

### Outdoor Growing Chick Feeder

This outdoor chick feeder is just about the most practical, all-around feeder we have seen. The wide rain cover projects well beyond edge of feeding trough, protecting contents from most rains. Side wall of feeder and rain cover are a one-piece construction, and come to you set up, ready for immediate use. This is a most sturdy feeder, with a pleasing appearance. The dividing partitions form convenient carrying handles. Hinged cover. Grills can be raised and locked in upper position.

No.	Length	Height	Width	Weight	F. O. B. Dallas
CF24W	24 inches	8 inches	11 1/2 inches	9 lbs.	\$1.85
CF36W	36 inches	8 inches	11 1/2 inches	13 lbs.	2.50
CF1B	30 inches	12 inches	17 inches	16 lbs.	3.00

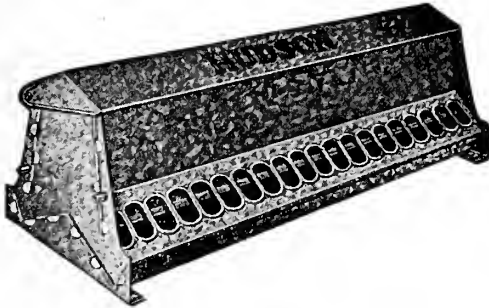


Outdoor Growing Chick Feeder.

### Growing Chick Feeder

This large capacity feeder is very similar to the outdoor feeder. The hopper is 4 inches wide at the top and 5 inches wide at bottom. Tapering, widened bottom hopper does not permit feed to bridge or clog. Deep feeding trough 9 1/2 inches wide, covered with a hinged grill keeps baby chicks out of feed and prevents waste. For large chicks grill can be swung and locked into upper position, leaving open feeding trough large enough to care for chicks well past the broiler age. Easily opened in close quarters with one hand, since cover is hinged. Carrying handles on inside, brace and strengthen side walls. Height 8 inches. Completely set up, ready for use on arrival.

No.	Length	Height	Width	Weight	F. O. B. Dallas
CF21	21 inches	8 inches	11 1/2 inches	6 lbs.	\$1.25
CF36	36 inches	8 inches	11 1/2 inches	8 lbs.	1.95

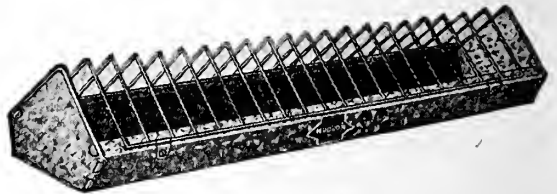


Growing Chick Feeder.

### Chick and Broiler Feeder

Especially designed for taking care of large numbers of chicks from about 2 weeks old until they are ready for the broiler market. Trough is made of heavy gauge iron 6 1/2 inches wide, 3 inches deep and has full 1-inch lip on each side. Grill hinged for easy cleaning and filling. Grill wires spaced 1 3/8 inches apart. Set up, ready for use on arrival.

No.	Length	Weight	F.O.B. Dallas
G30.....	30 inches	5 lbs.	\$1.35
G48.....	48 inches	7 lbs.	1.75



Chick and Broiler Feeder.



Hudson Reel Feeder.

### Hudson Reel Feeder

Very popular, revolving reel type. Adjustable two position reel, balanced to prevent roosting. Made either in galvanized or charcoal tin. 2 inches deep, 4 inches wide. All edges folded or curved. Set up, ready for immediate use.

No.	Length	Metal	Weight	F. O. B. Dallas
R12.....	12 inches	Galvanized	1 1/2 lbs.	\$ .25
R24.....	24 inches	Galvanized	2 1/4 lbs.	.50
R36.....	36 inches	Galvanized	3 1/2 lbs.	.80
R28.....	28 inches	Charcoal Tin	2 1/4 lbs.	.75

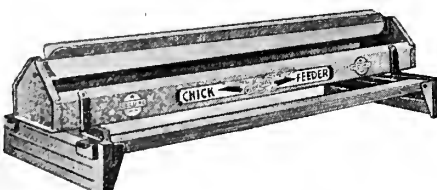
### Adjustable Chick Feed Trough

This feeder positively prevents chicks getting into feed trough. Suitable for day old to six weeks old chicks. Easily filled and cleaned. Set up, ready for immediate use. Made of best galvanized steel.

No.	Length	Weight	F. O. B. Dallas
OF24.....	24 inches	1 1/4 lbs.	\$ .40
OF36.....	36 inches	3 lbs.	.60



Adjustable Chick Feed Trough



### Klondike Reel Feeders With Or Without Base

Utility, combined with beauty. Water-tight, sanitary and efficient. Made of high grade galvanized or charcoal tin. DeLuxe Model reels painted red, bases painted red and green. Utility Model reels painted green.

#### KLONDIKE DELUXE FEEDERS (With Base)

Size	Metal	Weight	Price
28 inches	Galvanized	6 lbs.	\$1.00
48 inches	Galvanized	8 lbs.	1.50
28 inches	Charcoal Tin	6 lbs.	1.25
48 inches	Charcoal Tin	8 lbs.	1.75

#### KLONDIKE UTILITY FEEDERS (Without Base)

Size	Metal	Weight	Price
28 inches	Galvanized	2 lbs.	\$ .25
24 inches	Galvanized	3 lbs.	.50
48 inches	Galvanized	4 1/2 lbs.	1.00
24 inches	Charcoal Tin	3 lbs.	.75

Prices F. O. B. Dallas

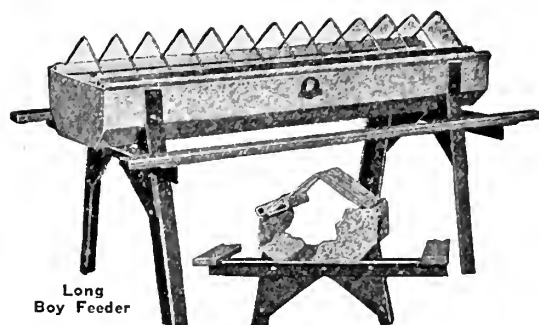
## The Long Boy Feeder

### A LONG TIME INVESTMENT

The heavy wire grid is firmly anchored in galvanized steel channels, which also act as a non-wasting guard. The grid is practically indestructible, simple and dependable in operation, snapping in and out. There are no hinges to give trouble. The trough, built of 26-gauge Prime Galvanized Steel, is of approved shape and size, with full rolled edge adding strength and improving appearance. The wide wooden perches are adjustable as to distance from the trough. The stand, built of 20-gauge black japanned steel, is very substantial, easily capable of supporting 400 pounds dead weight. Grid and trough come assembled. Stand is shipped knocked down, but easily bolted together.

Shipping Wt.  
3 ft. Long Boy Feeder—Grid Guard. .... 14 lbs.  
6 ft. Long Boy Feeder—Grid Guard. .... 24 lbs.

F. O. B. Dallas  
Price each  
\$3.95  
5.95



Long  
Boy Feeder

## Magnolia Wooden Reel Chick Troughs



The Magnolia Wooden Reel Chick Trough is extremely practical and a most unusual value. The trough is large in size and capacity, having a width of 3 3/4 inches, and a depth of 2 1/4 inches. Instead of the usual wire guard, it is provided with a nicely stained, wooden roller guard, which may be instantly removed for easy filling. Has non-wasting flange along edge, and is so designed as to keep the chicks out.

24 in. (24 to the carton). Shipping weight, 1 1/2 lbs. Price each, F. O. B. Dallas. .... 30c  
36 in. (12 to carton). Shipping weight, 2 1/2 lbs. Price each, F. O. B. Dallas. .... 45c

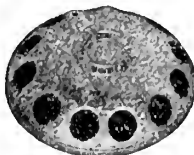
## Round Chick Feeders

### GALVANIZED

No.	Holes	Lbs.	Ea.
G 8	8	2	10c
G 12	12	3	20c

### CHARCOAL TIN

T	8	2	15c
T 12	12	3	30c



## Wire Guard Feeders

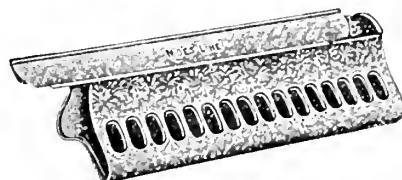


Attractively designed and die formed. Turned in flange at trough edge prevents feed waste, and double thickness eliminates sharp edge and increases strength. Wire guard rod prevents chicks getting into trough and may be swung to side for convenience in cleaning and filling. Adjustable to two partitions for starting and growing chicks. Shipped completely assembled.

No. N-15, FEEDER—15 in. long, 1 pound. Each, F. O. B. Dallas. .... 20c  
N. N-24, FEEDER—24 in. long, 1 1/2 pounds. Each, F. O. B. Dallas. .... 30c

## Large Capacity Feeders

No. 140—Feeder capacity, 10 quarts; length, 21 inches; width, 8 1/2 inches; height, 7 inches. 16 openings on each side, so that 32 chicks can feed at one time. Shipping weight 5 lbs. Each, F. O. B. Dallas. .... \$1.20  
No. 141—Feeder capacity, 17 quarts; length, 35 inches; width, 8 1/2 inches; height, 7 inches. 27 openings on each side, so that 54 chicks can feed at one time. Packed one in carton. Shipping weight, 8 lbs. Each, F. O. B. Dallas. .... \$1.80

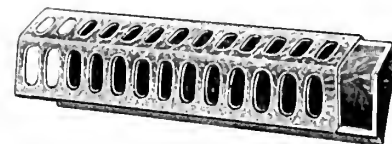


Large Capacity Feeder.

## Double Feeding Troughs

For chicks and growing stock. Easy to fill and clean.

No.	Length	No. of Holes	Shipping Weight	F.O.B. Dallas Each
58	12 in.	18	2 lbs.	\$ .30
59	18 in.	26	3 lbs.	.40
60	24 in.	36	4 lbs.	.50
76	36 in.	54	5 lbs.	.70



Double Feeder.

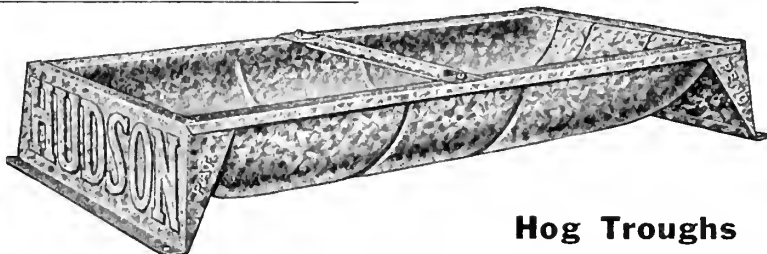
## Eclipse Feeding Troughs

### GALVANIZED

No.	Length	No. of Holes	Shipping Weight	F.O.B. Dallas Each
27	10 in.	10	2 lbs.	\$ .25
28	20 in.	20	3 lbs.	.30
CHARCOAL TIN				
137	10 in.	10	2 lbs.	.30
138	20 in.	20	3 lbs.	.40



Eclipse Feeder.



## Hog Troughs

A newly designed trough of the nesting style, having all the desirable features of rigidity and sturdiness. The nesting feature cuts the freight rate more than half. End pieces designed with double thickness fold of metal. All edges folded under. Bolted tubular cross braces one foot apart fastened to body of trough with bolts. Cross braces detached and packed between bodies of troughs when shipped. All troughs over 4 feet made of 20-gauge steel and have extra intermediate support in center. Troughs 4 feet and shorter, 6 in bundle; 6 feet and longer, 3 in bundle. All troughs furnished with bolted cross braces.

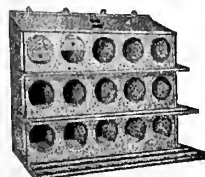
No.	Length	Weight	F. O. B. Dallas	No.	Length	Weight	F. O. B. Dallas
NH2 TROUGH	2 ft.	5 1/2 lbs.	\$ .75	NH6 TROUGH	6 ft.	17 1/2 lbs.	\$2.50
NH4 TROUGH	4 ft.	10 lbs.	1.50	NH8 TROUGH	8 ft.	23 lbs.	3.15

## All Metal Nests (With or Without Traps)

Metal nests aid you to get rid of lice and mite infestations. No more parasites to plague and irritate your hens. Our nests are built of galvanized, rust-resisting copper steel. Clean nests and clean eggs. Solid metal bottoms which can be lifted out and taken outside for cleaning and scalding. Incline top prevents chickens from roosting above. Perches can be swung up against face of nest section after night feeding to prevent hens from roosting either on the perches or in nest.

Nests are fitted for locking style trap, which can be purchased with nests or later. Nests should be provided in proportion of five hens to every nest. All nests have 8 1/2 inch hole and are 13 1/2 inches wide.

No.	Sections	Length	Height	Weight	F. O. B. Dallas
6M	6	36 1/2 inches	32 inches	41 lbs.	\$ 7.45
10M	10	61 inches	32 inches	65 lbs.	10.95
15M	15	61 inches	45 inches	83 lbs.	15.40
Traps for above, self-locking, to fit nest				2 lbs.	.45



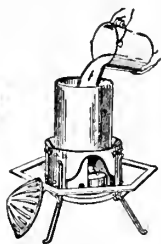
15M Nest.



6M Nest.

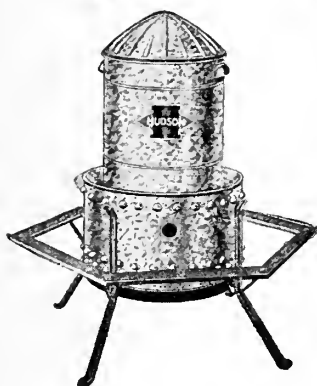


No. B16  
No. B19

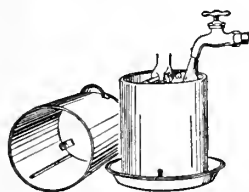


Showing Method  
for Filling

It is as easy to fill as a bucket. Cone shaped top prevents roosting and fouling drinking.



05B



Filling C-5 or 05



C5—5 Gallon  
Fount Filling.

## Large Capacity Fountain

VACUUM CONTROLLED—  
LAMP HEATED

This fountain is of the double jacket, vacuum control type, and is quite satisfactory, although probably not quite so efficient as the float and valve type.

Water feed is automatic. Inner tank may be used for carrying water. Automatic shut-off valve prevents water from running from supply tank, while being filled. Cover locks onto inner jacket so that fountain can be lifted whether cover is in place or has been removed. Fountain is lifted from base to attend lamp. Lamp has 60 hour capacity.

No. C-5—Fountain only, without heater or base. Shipping weight, 11 lbs. F. O. B. Dallas...\$2.85

No. 05—Fountain with heater but without base. Shipping weight, 15 lbs. F. O. B. Dallas...\$4.25

No. 05B—Fountain with heater and base. Shipping weight, 23 lbs. F. O. E. Dallas...\$6.35

## Fountain or Brooder Heater



Fountain or  
Brooder Heater.

Can be used for any style summer or winter fountain. Prevents water from freezing in extreme temperatures. Also an excellent heater for small brooders. Lamp bowl holds sufficient supply of kerosene to burn continuously for sixty hours. Safe and simple. 8 inches high, 12 inches in diameter. Shipping weight, 6 lbs. Comes complete with lamp, burner and wick.

No. 13—Lamp Fountain Heater. F. O. B. Dallas...\$2.00

## Large Capacity Founts FLOAT AND VALVE CONTROLLED

Your egg production is dependent upon hens having available at all times, ample water supply. One hundred hens will drink from four to five gallons of water per day and egg production will stop within forty-eight hours if the water supply is cut off. Water should be kept fresh and clean and for that reason, large capacity founts are desirable. When the weather is cold, you must have protection from freezing. Our large capacity founts are most practical for all purposes. They pay for themselves through increased egg yield, and also through time and labor saved.

They are made of high grade galvanized rust resisting copper alloy steel sheets, controlled by an improved adjustable float and valve arrangement, keeping the water at exactly the right level in the drinking pan. Drinking pan has two small round flues coming up to bottom of water container, allowing circulation of warm air and preventing water from getting too warm in the pan. This also prevents water from freezing in the large container. Illustration shows method of filling. They are easily cleaned and can be kept in an absolutely sanitary condition, with a minimum of labor. Lamp has 60 hour capacity.

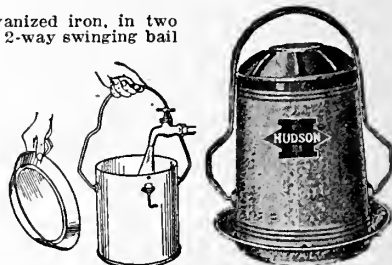
No.	Item	Shipping Weight	F. O. B. Dallas
16	5 Gallon Fount, with heater, without base.....	15 lbs.	\$ 5.50
B 16	5 Gallon Fount, with heater and base.....	24 lbs.	7.65
19	8 Gallon Fount, with heater, without base.....	18 lbs.	7.65
B-19	8 Gallon Fount, with heater and base.....	28 lbs.	9.75
B-20	8 Gallon Fount, with electric light socket and attachment plug, ready to receive bulb, insulated base.....	29 lbs.	10.75



No. 16 No. 19

## Handy Fill Chick Fountain

Made of heavy, galvanized iron, in two pieces. Top made with 2-way swinging bail which permits fountain to be carried either filled or in filling position. Drinking pan designed to prevent small chicks from getting into water and contracting colds and diseases. Bottom snaps onto pail in same manner as a glove fastener. Nothing to get out of order. Easy to fill and clean.



Handy-Fill Chick Fountain.

No.	Capacity	Shipping Weight	F. O. B. Dallas
C-2.....	2 gallon	4 lbs.	\$1.25
C-3.....	3 gallon	5 lbs.	1.50

## Easy Fill Fountain

An excellent, low priced, bottom fill fountain with self-gripping pan, made from heavy galvanized sheet. Pail and pan friction snap-together. Designed especially for baby chicks and keeps them out of water.

No.	Capacity	Hght.	Diameter	Wgt.	F.O.B. Dallas
01	5 quart	9 ins.	9½ ins.	3 lbs.	\$ .60
02	2 gallon	8½ ins.	10½ ins.	3½ lbs.	.95



Easy Fill Fountain.

## Bottom Fill Fountain

Made from heavy galvanized steel, two piece, cone shape, easily filled and cleaned. A very popular fountain, made in three sizes:

No.	Capacity	Height	Shipping Weight	F.O.B. Dallas
B-1	1 quart	6 inches	1 lb.	\$ .25
B-2	2 quart	8 inches	1½ lbs.	.35
B-4	1 gallon	9½ inches	2 lbs.	.45

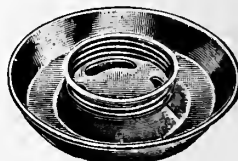


Bottom Fill Fountain

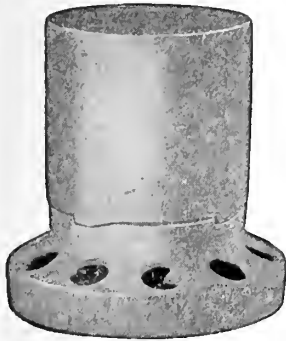
## Mason Jar Fount

Constructed so that an abundance of water is always in the pan, and yet it will not overflow. Screw cap is electrically welded to pan and fits standard Mason jar. T-25 is made from heavy charcoal tin, is acid and weather resisting and may be used for buttermilk, sour milk or medicine. G-25 is made of galvanized iron.

No.	Metal	Shipping Weight	F.O.B. Dallas
G-25	Galvanized	1/3 lb.	\$ .10
T-25	Charcoal Tin	1/3 lb.	.12



G-25 Mason Jar Fountain.



Buttermilk, Non-Spill.

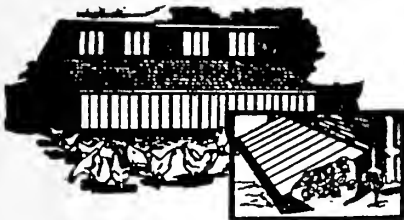


Magnolia Jar Fountain.

### Famous Star Founts

A single piece of heavy, non-rusting metal. No seams, solder nor loose parts. Can't leak; chicks can't drown. Fits any Mason jar in 1-pint, 1-quart and 2-quart sizes. Shipping weight, 1 pound. No. 32—(Jar not included.)

Price, each ..... 10c  
No. 133—Charecoal tin. .... 10c  
F. O. B. Dallas



### AMAZING AMES EXPERIMENT

A test with chicks at Iowa State College, at Ames, Iowa, proved that Glass Cloth is very valuable to the health of baby chicks. Of an equal number of chicks placed under glass and under glass cloth, 25 per cent of the chicks under glass died, while all under glass cloth lived. The 75 per cent that lived under glass gained only 180 per cent on their original weight, while those under glass cloth gained 250 per cent.

### IDEAL FOR HOTBEDS

Light, strong and cheap. Glass Cloth is the ideal material for hotbeds and coldframes. Glass Cloth holds in the warmth and does not chill as quickly as window glass. Tender young plants need ultra-violet light, just as baby chicks do. Glass Cloth lets these rays through and as a result, you grow stronger, harder plants that will not be nearly so likely to burn up in the sun when you set them out.

### F. O. B. Dallas Prices

1 Yard (9 square feet). 3ft. long, 36 in. wide. Per yard. .... 35c  
10 Yards (90 square feet). 30 ft. long, 36 in. wide. Special roll price ..... \$3.25  
15 Yards (135 square feet). 45 ft. long, 36 in. wide. Special roll price ..... \$4.75  
50 Yards (450 square feet). 150 ft. long, 36 in. wide. Special roll price ..... \$15.00

### Crystol Fabric

There are a number of substitutes for Glass Cloth on the market, but we find them from 35% to 70% less durable than this high grade product. The manufacturers of Glass Cloth, however, realizing that some people might want a cheaper fabric, have manufactured their Crystol Fabric to meet the demand for a lighter weight, less expensive cloth.

We recommend Crystol Fabric where a light weight fabric is desired to use for just a short time. Glass Cloth will outlast Crystol Fabric four times the normal life of Crystol Fabric; yet if you do not need long life, there is no advantage in paying for it. 36 in. wide.

### NOTE THESE PRICES

1 Yard (9 Sq. Feet). .... 25c 15 Yards (135 Sq. Feet). 3.50  
10 Yards (90 Sq. Feet). \$ 2.25 50 Yards (450 Sq. Feet). 10.00  
F. O. B. Dallas

### Non-Spill Buttermilk Feeders

The adjustable Non-Spill Feeder is ideal for clabber or buttermilk because its exclusive construction prevents spilling when inverted after filling. Large free-flowing opening will not clog. Adapted for thin wet mash, dry mash or any liquids.

Four quarts. Packed 6 to crate. Shipping weight, 14 lbs. each. Price each, F. O. B. Dallas. \$1.30  
Crate ..... 7.00

### WARNING!

Some houses have been charging poultrymen a big price for Proso Seed. Proso Seed is nothing more nor less than ordinary Hog Millet, which you will find on Page 40 of this catalog. It does make a good poultry feed. But why pay an exorbitant price for it?

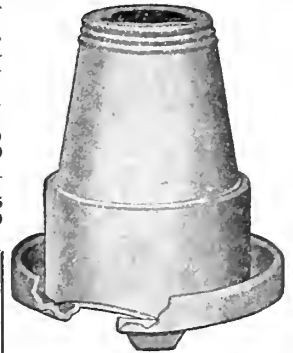
### New Model Spil-Pruf

The new Spil-Pruf Fount eliminates splashing when inverted after filling. New exclusive design with rib grip for easy handling. Made of best grade stoneware, glazed inside and out. Permanent and sanitary. Equipped with footed pan. Size, 2-quart. Packed 24 to crate. Shipping weight, 7 lbs. each.

Price, each, F. O. B. Dallas. \$ .60  
Crate ..... 13.90

Size, 4-quart. Packed 24 to crate. Shipping weight, 9 lbs. each.

Price, each, F. O. B. Dallas. \$ .75  
Crate ..... 17.50



New Model Spil-Pruf.

### DWARF ESSEX RAPE

is another good poultry feed—and perhaps the fastest growing green feed you can raise. Listed on Page 41 of this catalog.

### Magnolia Automatic Fountains and Troughs

Your water troubles are all over when you install a Magnolia Automatic. There are a quarter of a million now in use and you will hear them praised wherever they are installed. Any kind of pans or crocks may be used with this fountain with the best results. They are operated by gravity and the pressure of the water system should govern the size of the trough. They are frost-proof to the extent that they cannot be damaged by freezing.

### Magnolia Fountain

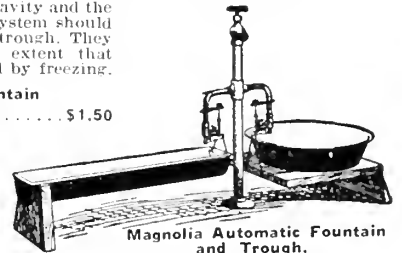
Weight, 2 lbs. .... \$1.50

### Magnolia Galvanized Trough

Weight, 4 lbs. .... .75c

### Magnolia Porcelain Trough

Weight, 6 lbs. Ea. \$2.50  
Prices, F. O. B. Dallas



Magnolia Automatic Fountain and Trough.

### Perfection Cold Pack Canner

The PERFECTION COLD PACK CANNER will reduce the high cost of living. With this outfit the winter supply of fruit and vegetables can be provided at a small cost and very little effort compared with the old method of canning.

The cold pack method is pronounced by many to be superior to any other method of canning fruits, vegetables, fowl, meat, fish, wild game or other foods. The natural flavor and juices are preserved as in no other way.

Successful Cold Packing requires a maximum of Hot Vapor at low pressure. In this, the Perfection Canner excels. All meats and vegetables can be packed this way at the season when they are most plentiful.

Spring chicken is no longer a seasonable item. Purchased when the price is most favorable, and canned in a Perfection Canner it may be served in mid-winter with greater relish than in early summer.

AN EXAMPLE—Tomatoes can be purchased in season as low as 50c per bushel. A bushel of tomatoes will can from 20 to 21 quarts, or a cost of about 2½ cents a quart.

Large mouth glass top jars with high quality rubber rings are recommended for best results.

Attractively finished in Lettuce Green Baked Enamel; easily cleaned and contributes to color in the Kitchen. Three sizes.

No. 11—COLD PACK CANNER. Diameter 14 inches, height 14 inches, 1 tray capacity, 7 quarts or 8 pints. One in carton. Shipping weight, 16 pounds. F. O. B. Dallas. .... \$6.50

No. 12—COLD PACK CANNER. Diameter 14 inches, height 23 inches, 2 tray capacity, 14 quarts or 16 pints. One in carton. Shipping weight, 25 pounds. F. O. B. Dallas. .... \$9.00

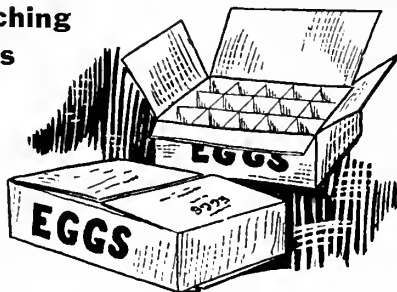




## Egg Farm Supplies

### Standard Hatching Egg Boxes

Made of 175-lb. test heavy corrugated board throughout, satisfactory for shipping hatching eggs. Space on lid for address of customer and yours. Especially designed for shipping by parcel post or express, so that there is no danger of chilling or becoming broken enroute. Very easily set up and packed.



Size	Dozen, Weight	1 to 9 Dozen, Per Doz.	10 Doz. Per Doz.
15-Egg Box.....	11 1/2 lbs.	\$1.50	\$1.35
30-Egg Box.....	16 1/2 lbs.	2.50	2.35

Write for prices on larger quantities. Prices, F. O. B. Dallas.



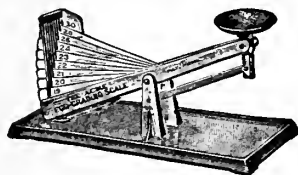
### Farmers' Friend Egg Carriers

Well built and durable. Adjustable cover. Complete with fillers and flats. Can be used for shipping eggs by parcel post or express, or for delivering eggs to the stores, hatcheries, etc.

12-Dozen Egg Carrier, complete.....	\$1.10
Fillers and Flats. Per set.....	.20

Prices, F. O. B. Dallas

### Acme Egg-Grading Scales



#### Graded Eggs Mean Higher Market Value

Acme Egg-Grading Scales will accurately grade all eggs ranging from 16 ounces per dozen to 32 ounces per dozen. Made entirely of aluminum. Shipping weight, 3 lbs. Price, each.....\$3.00

Prices, F. O. B. Dallas

### Egg Stamps



A rubber stamp for guaranteeing eggs. Furnished in standard style for associations, or individual style, with name and address of stamper, and one word additional. Care should be used that too much copy is not furnished.



Specimen of Imprint

#### Egg Stamp

Quantity	Price for Change of Number Only	Each	Quantity	Price for Change of Name only	Each
1 to 5.....		\$1.00	1 to 10.....		\$1.00
5 to 10.....		.90	10 to 20.....		.95
10 to 20.....		.80	20 to 30.....		.92
20 to 25.....		.70	30 to 35.....		.90
25 to 50.....		.65	35 to 40.....		.89
50 to 75.....		.63	40 to 50.....		.88
75 to 100.....		.60			

#### SELF-INKING PADS

GEM—Size, 2 1/4 x 3 1/2. F. O. B. Dallas, each.....25c



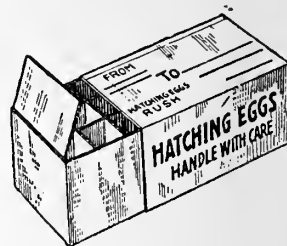
### Caponizing Instruments

The best caponizing tools on the market are known as the Lansdowne No. 2 Caponizing Set, for sale by this company. They are made by expert surgical instrument manufacturers and are first-class in every respect. With each set of instruments we send a booklet containing full instructions for using the instruments and caring for the capons. Shipping weight, 1 pound. Price, per set, postpaid....\$5.00

### Superior Hatching Egg Boxes

#### For Chicken or Turkey Eggs

Strong corrugated paper, 175-lb. testboard reinforced by an interlining which thoroughly protects the entire box. An exceptionally heavy and practical box, which can be used for shipping either chicken or turkey eggs. This box is stronger than the standard hatching egg box and is much larger in size.



Size	Dozen, Weight	1 to 9 Dozen, Per Doz.	10 Doz. Per Doz.
15-Egg Size.....	15 lbs.	\$1.85	\$1.75
30-Egg Size.....	23 lbs.	2.75	2.50

Write for prices on larger quantities. Prices, F. O. B. Dallas.

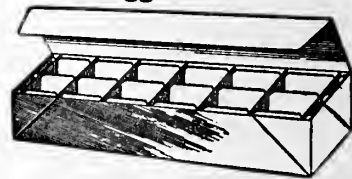
### Commercial 2x6 Egg Boxes

#### A Box That Helps You Sell Eggs

Cardboard. 30 dozen of these boxes will fit a standard egg case. Weight per 1,000, 155 pounds.

50-250, per 100.....	\$1.65
250-5,000, per 100....	1.45
5,000 and up, per 100	1.35

Prices, F. O. B. Dallas



### Eagle Egg Boxes

Weight per 1,000, 100 pounds.

50-250, per 100.....	\$1.00
250-5,000, per 100.....	.80
5,000 and up, per 100.....	.75

Prices, F. O. B. Dallas

Write for prices on larger quantities, or for special printing on Commercial and Eagle Egg Boxes.



### Nest Eggs

Will not break easily. Weight, per dozen, 2 pounds.

	Each	Doz.
China—Fine grade porcelain..	\$.05	\$.35
Chalk—Dull finish.....	.05	.45

Prices, F. O. B. Dallas



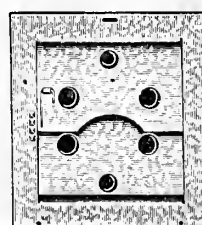
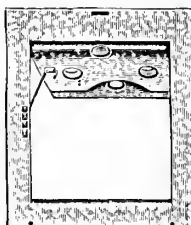
### Egg Cases

Standard 30-dozen egg cases. 25 to the bundle.

	Bundle, Weight	Bundle, Per Case
Cottonwood.....	200 lbs.	\$.25
Fillers—12-30 dozen sets to case.....	50 lbs.	2.00

Prices, F. O. B. Dallas

### Trap Nest Fronts



#### No. 63 Trap Nest Front

No. F-59—(12 in box.) To be attached to an ordinary wood box, or any other kind of nest. Opening, 9x10 1/2 inches. Front is 12 1/2 x 15 1/2 over all. Plenty of ventilation. Shipping weight, 20 lbs. dozen. Each, F. O. B. Dallas.....40c

#### No. F59

No. 63—Easily fitted to any orange or ordinary wood box or coop and gives the breeder the opportunity to use a size nest best adaptable to his birds, with uniform automatic trap feature. Effectively traps the hen, yet allows ample ventilation. Easy to remove hen or clean the nest. 11 inches wide by 12 inches high. Size of opening, 8 inches by 9 inches. Packed 12 in box. Weight, per dozen, 16 lbs. Each, F. O. B. Dallas.....50c

# Hatchery Supplies

## Magnolia Shipping Box

GOOD CHICKS DESERVE  
ATTRACTIVE CONTAINERS

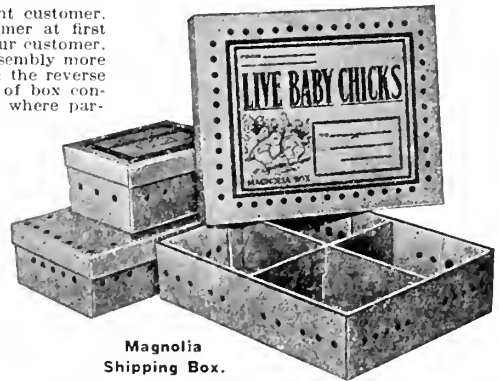
If your chicks please your customers when they arrive, you will have a permanent customer. MAGNOLIA BOXES help you to build permanent customers by pleasing your customer at first sight, and by protecting your chicks so that they are in the right condition to please your customer.

This year's box contains many improvements—corners are slotted so as to make assembly more attractive; partitions are scored so that they turn in one direction on one side, and in the reverse direction on the other; partitions are punched for more satisfactory ventilation; top of box contains four holes in the center for better ventilation; and insides are slightly scored where partitions attach to box, for increased ease and speed in setting up.

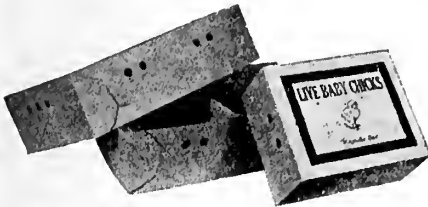
The boxes are made of high grade, strong corrugated board, weather-proofed kraft outside and chip liner. All holes semi-punched permitting complete control of ventilation.

All boxes wrapped 12 to the bundle, without staples. We do not break bundles.

Size	Shipping Weight	Per Doz.	F.O.B. Dallas Prices	
			12 to 500	500 and Over
100 Chick Standard 22x18x5½	28 lbs.		\$ .09¼	\$ .08¾
50 Chick Standard 18x11x5½	17 lbs.		.06½	.06¼
25 Chick Standard 11x 9x5½	10 lbs.		.04½	.04¼
100 Chick Hot Weather 24x18x6	32 lbs.		.10½	.09¾
50 Chick Hot Weather 18x12x6	19 lbs.		.07½	.06¾
25 Chick Hot Weather 12x 9x6	11 lbs.		.05	.04½



Magnolia Shipping Box.



Magnolia Custom Hatch Box.

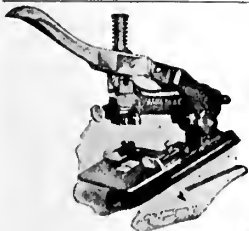
## Magnolia Custom Hatch Box

FOR OVER-THE-COUNTER DELIVERY

A time and money savor. Can be set up without any loss of time. Made of heavy grade cardboard, sides punched. Slotted for setting up. Just crease and slip in slots and the box is ready for use. Telescope top holds absolutely rigid. Wrapped 100 to the bundle. We do not break bundles.

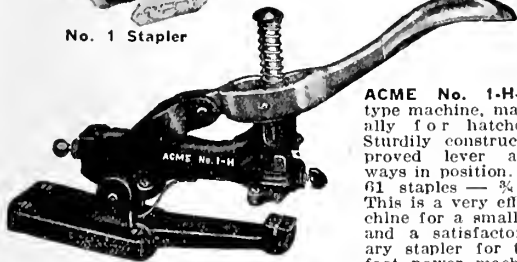
Size	Shipping Weight	F.O.B. Dallas Prices	
		100 to 500	500 and Over
25 Chick—11x9x5	Per 100	\$3.25 per 100	\$3.15 per 100
50 Chick—18x11x5	41 lbs.	4.75 per 100	4.65 per 100
	72 lbs.		

## Staplers



No. 1 Stapler

**ACME No. 1 STAPLER**—For hand stapling. An enormous time saver, and an extremely economical machine. Requires no adjusting. Equipped with anti-clogging device and flat table. Uses No. XX staple, 5/16-inch leg. Shipping weight, 9½ lbs. Price, F. O. B. Dallas, \$6.50



Acme No. 1-H.

**ACME No. 1-H**—A new type machine, made especially for hatchery use. Sturdily constructed—improved lever action—always in position. Uses No. 61 staples—¾-inch leg. This is a very efficient machine for a small hatchery and a satisfactory auxiliary stapler for the larger foot power machines. Price, F. O. B. Dallas, \$8.10

## Staples

No.	Leg	Packed	F.O.B. Dallas Price
XX	5/16-inch	5,000 to box (Cohered)	\$1.25
61	¾-inch	5,000 to box (Cohered)	1.60
TIN HAND STAPLES, 1000 to box			.75
COPPER COATED STAPLES, 1000 to box			.90
STAPLE TOOL, for use with either tin hand or copper coated staples, to guide staples into box. Each			.35

## Chick Box Supplies

	Shipping Weight	F. O. B. Dallas
Ventilating Punch	1 lb.	\$ .25 each
Ventilating Box Strips		
8-inch, bag of 500 pine strips	40 lbs.	1.40 bag
Hatchery Glue, 1 gal.	12 lbs.	.90 gal.
Hatchery Glue, 5 gal.	60 lbs.	3.50 can
Sisal Twine, hard twist, 2-ply, 5 lb. balls	5 lbs.	1.75 ball
2-inch Paper Sealing Tape, 600 ft. to roll	3 lbs.	.50 roll
Wood Wool, Fine Pine	100 lbs.	2.75 bale
Wood Wool, Medium Pine	100 lbs.	2.25 bale
Wood Wool, Cottonwood	100 lbs.	3.75 bale
Wood Wool Pads, 9x11 inches		
50 to bale, less than 20 bales		.50 bale
20 bales or more, per bale	7 lbs.	.45 bale

## Wake-O Temperature Alarm

This alarm gives a continuous signal when the temperature rises or drops beyond the point at which the controlling contacts are set. Can be adjusted for any desired range of temperature, permitting the use of the signal in many other places than incubators and brooders. Accurate and dependable. Once the contact screws are set, the device requires no further adjustment.

This affords good fire insurance. Should fire break out in or near the incubator or brooder, warning is given immediately by the ringing of the bell.

Each alarm is furnished with bell, switch, ¼ pound of wire, insulated staples and screws. On account of shipping weight the standard dry cell is omitted and is all that is necessary to be purchased from your local store.

Wake-O Temperature Alarm, F. O. B. Dallas, \$3.75

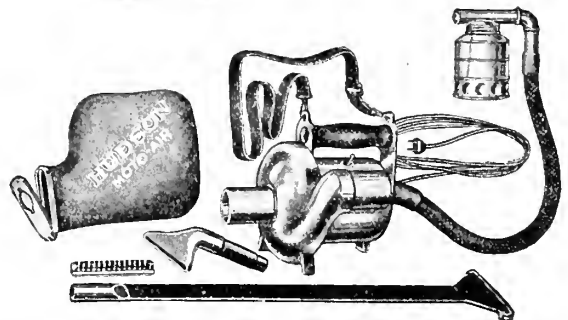


## Moto-Air

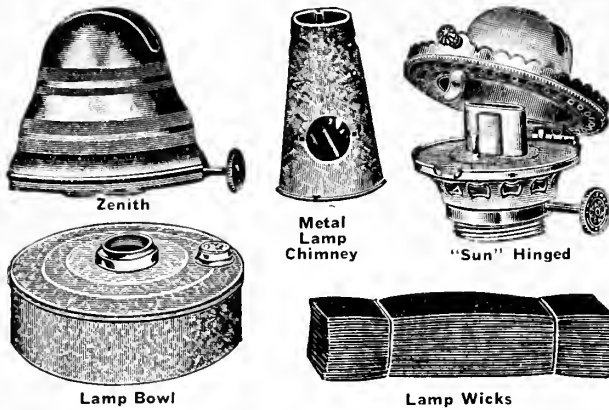
INDISPENSABLE FOR HATCHERIES

This is a complete unit, electrically operated, for the cleaning and disinfecting of commercial hatcheries. It is a powerful vacuum cleaner and a highly efficient power sprayer. It removes egg shells, fluff and all other debris from any type of incubator. It sprays disinfectant, insecticide, whitewash and other materials in a way unequalled by many other machines costing several times what you pay for the Moto-Air. Can also be used in the home and in your automobile as a vacuum cleaner. 30-in. Special Incubator Nozzle makes incubator cleaning very simple and quick.

No. 715 MOTO-AIR—Complete, shipping weight, 17 lbs. F. O. B. Kansas City factory, \$31.50



## Incubator and Brooder Supplies



### Patterson & Young Moisture Guide

This moisture guide solves the moisture problem with smaller incubators.

The holder is fastened to the egg tray and the guide is filled with water to the top line. The graduated scale shows how much moisture should evaporate from the egg each day. If evaporation is too fast, moisture should be added; if too slow, more air should be given. Full directions come with each guide. Attachments are included for all turning trays. Every owner of a small incubator should have this moisture guide.

Each, postpaid.....\$1.00  
Tubes for Moisture Guide, postpaid.....65c

### Double-Unit Wafer Thermostats

Made of special tempered brass, vacuum-filled, sensitive, accurate and durable. For use on either brooders or incubators. Show type desired per following data:

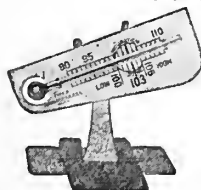
- 3-in. Screw Post—10-32 in. threaded button.
- 3-inch Regular—5-16 in. plain button one side, cup post other side.
- 3-inch C. B.—5-16 in. plain button one side, opposite side smooth.
- 4-inch Screw Post—10-32 in. threaded button.
- 4-inch Screw Post—1-in. threaded button.
- 4-inch Plain Post— $\frac{1}{4}$  x 1-in. plain button.
- 5-inch Plain Post—Heavy cup post.

The above are carried in Dallas stock but we can furnish any other type desired. Just send in your old wafer for replacement and we will replace it at prices shown.

	Each	Dozen
3-inch Wafers—F. O. B. Dallas.....	.45	\$4.50
4-inch Wafers—F. O. B. Dallas.....	.60	5.50
5-inch Wafers—F. O. B. Dallas.....	.75	7.50

### Incubator Thermometers

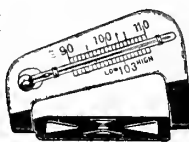
No. 5776—Genuine "Tyco's" Thermometer. Black graduations on a white scale make this thermometer easy to read. Scale range, 90 to 110 degrees Fahrenheit. Complete with a metal stand as shown. Packed 1 to a box. Each, postpaid.....85c



No. 5776

No. 800—Reliable incubator Thermometer, magnifying lens mounted on porcelain stand and frame with black engraving, enables you to read it any place in the egg chamber.

Each, postpaid...75c



No. 800

### "SUN" HINGED LAMP BURNERS

For incubators and brooders. So designed that perfect combustion is insured. Easily cleaned and trimmed. Packed 12 in box.

Size	Wick	Weight, dozen	Packed 12 in box
Size 1	Wick, $\frac{5}{8}$ in.	3 pounds	Each .40
Size 2	Wick, $\frac{3}{4}$ in.	4 pounds	Each .60
Size 3	Wick, 1 $\frac{1}{2}$ in.	5 pounds	Each .75
Size 3	Double Wick, 1 $\frac{1}{2}$ in.	5 pounds	Each .95

### LAMP BOWLS

Heavy galvanized iron bowls. No give or spring to top, a common fault with ordinary bowls.

No.	Size	Weight, dozen	Packed 12 in box
No. 100	Size 1 burner, 1 $\frac{1}{2}$ x 6 in.	3 pounds	Each .55
No. 101	Size 2 burner, 2 $\frac{1}{4}$ x 6 $\frac{3}{4}$ in.	4 pounds	Each .65
No. 102	Size 3 burner, 2 $\frac{3}{4}$ x 8 in.	5 pounds	Each .80

### RED FELT LAMP WICKS

High grade felt wicks. A big improvement over loosely-woven cotton wicks. No loose threads to burn uneven and smoke. Packed 1 dozen in a bundle

No.	Width	Weight, dozen	Packed 12 in box
No. 1	Width, $\frac{5}{8}$ in. for burner No. 1	3 pounds	Each .25
No. 2	Width, $\frac{3}{4}$ in. for burner No. 2	4 pounds	Each .45
No. 3	Width, 1 $\frac{1}{2}$ in. for burner No. 3	5 pounds	Each .55

### "ZENITH" LAMP BURNERS

A "No-Chimney" burner for incubators, brooders, fountain heaters, etc. Perfect combustion without chimney. 12 in box.

No.	Wick	Weight, dozen	Packed 12 in box
No. 1	Wick, $\frac{5}{8}$ in.	3 pounds	Each .50
No. 2	Wick, $\frac{3}{4}$ in.	4 pounds	Each .65
No. 3	Wick 1 $\frac{1}{2}$ in.	5 pounds	Each 1.00

### METAL LAMP CHIMNEY

Made of sheet steel with round mica window. Mica easily replaced if it should be accidentally broken. Made in three sizes to fit Nos. 1, 2 and 3 burners. Each.....25c

### LAMPS—COMPLETE

No.	With	Weight, dozen	Packed 12 in box
No. 1	With sun-hinged burner and chimney	3 pounds	Each \$1.20
	With Zenith no-chimney burner	3 pounds	Each 1.05
No. 2	With sun-hinged burner and chimney	4 pounds	Each 1.50
	With Zenith no-chimney burner	4 pounds	Each 1.30
No. 3	With sun-hinged burner and chimney	5 pounds	Each 1.80
	With Zenith no-chimney burner	5 pounds	Each 1.80

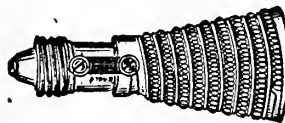
All Prices F. O. B. Dallas.

### Special Hatchery Hygrometer

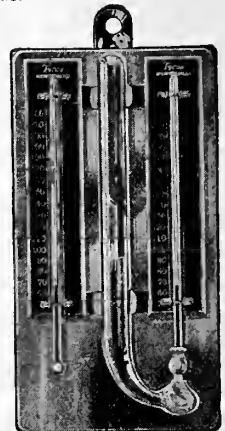
For use in Smith, Buckeye, Petersime, and other large incubators. A splendid and scientific device for determining moisture in an incubator. Has metal moisture-proof back. The most practical instrument for determining moisture content of large area, such as the Mammoth incubator. The manufacturers guarantee its absorbent accuracy for the purpose intended. This has become standard equipment for most of the Mammoth incubators.

SPECIAL HATCHERY HYGROMETER  
Each, postpaid.....\$4.50  
Extra Wicks. Per dozen.....1.25  
Extra Reservoir. Postpaid......45

### Heating Element



for



Hygrometer.

### Small Brooders

May be used in Battery brooders instead of bulb. Puts out more heat and uses very little more electricity. 110 volt. Can furnish in 60-watt or 600-watt—the latter being used principally for small room heaters.

A-60—60-watt heating element.	Postpaid.....	\$ .75	\$8.50
A-600—600-watt heating element.	Postpaid.....	.75	8.50

### Brooder Thermometers

No. 5792—Genuine "Tyco's" Thermometer. For insertion through a hole in the canopy, so that the bulb is in the actual brooder temperature, and the scale is outside for easy reading. Packed 1 to a box. Shipping weight, 6 ounces. Each, postpaid.....85c

No. 5794—Brooder Thermometer, to be hung under the canopy. Plain mercury fills top. Temperature range, 40 to 116 degrees Fahrenheit. Black lithographed metal scale with white-filled figures and graduation. Packed 1 to a box. Shipping weight, 4 ounces. Each, postpaid.....65c

The Sherman-Magnolia Seed Company realizing the importance of accuracy in hatching and brooding chicks, has made a consistent effort to furnish only equipment that will give absolute satisfaction to its user. Should any of our equipment fail to please you, be sure to tell us about it, for we want you satisfied.



No. 5794



No. 5792

## Brooder House Ventilators

Pure air is the cheapest medicine you can give your flock, and produces more results than any medicine concocted by man. The air in your brooder house is quickly poisoned, for chicks require even more air proportionately, than a human being. So ventilate your brooder houses. These inexpensive ventilators will save you many chicks.

Square base combination ventilator and pipe cap is for use on flat and gable roof brooder houses. Pipe collar is designed to receive either four or five-inch brooder pipe. Made from heavy galvanized iron, strongly braced. Aluminum finish.

**PBS-12 — Ventilator,** base, 16x16; height, 36 inches; vent flue, 12 inches in diameter. Height, 27 inches; shipping weight, 25 lbs. F. O. B. Kansas City .....\$8.10



PBS-12

**PBS-9 — Ventilator,** base, 12x12; vent flue, 9 inches; height, 27 inches; shipping weight, 18 lbs. F. O. B. Kansas City .....\$6.60

Round base combination is for use on round, octagon and hexagon roofs, with 30 degree pitch or more. Otherwise same construction as Square Base.



PBR-12

**PBR-12 — Ventilator,** Vent flue, 12 inches diameter; height, 30 inches; shipping weight, 25 lbs. F. O. B. Kansas City ....\$7.80

**PBR-9 — Ventilator.** Vent flue, 9 inches; height, 22 inches; shipping weight, 18 lbs. F. O. B. Kansas City .....\$6.00

Adjustable base, combination pipe cap and ventilator for flat roofs, base adjustable to fit various pitch roofs from flat to 20 degree pitch. Galvanized iron, aluminum finish. 9-inch vent flue. Pipe collar receives either four or five-inch pipe.



CBA-9

**CBA-9 — Ventilator,** shipping weight, 9 lbs. F. O. B. Kansas City .....\$3.30

**CBR-9 — Ventilator,** round base instead of adjustable base. Shipping weight, 9 lbs. F. O. B. Kansas City .....\$3.45

Write for special data on Ventilating Systems if interested.

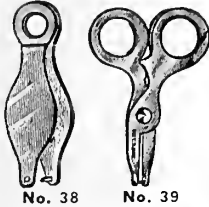
## Poultry Punches

**No. 38 — PETTY'S**—A popular and practical punch for marking baby chicks. Punches a clean hole and will not bruise foot. Shipping weight, 3 ounces.

Each, postpaid .....15c

**No. 39 — IDEAL PUNCH**—Improved scissors type. Works easily, cuts clean and does not pinch foot. Length, 3½ inches. Shipping weight, 3 ounces.

Each, postpaid .....35c



No. 38

No. 39

## Aluminum Leg Bands



No. 130

POSTPAID PRICES

Made of sheet aluminum with large raised numbers, easy to read from a distance. Adjustable for any size fowl. Numbered 1 to 4,999, as wanted. Come 100 to box in numbers above 100. Do not break boxes.

12 bands.....	.15	100 bands.....	.60
25 bands.....	.25	500 bands.....	2.50
50 bands.....	.35	1000 bands.....	4.50

## Wing Bands



Double End Clinch Band

Sealed Wing Bands.....	.25	.50	1.00	1000
Double End Clinch (Numbered or unnumbered).....	.35	.65	1.25	\$9.50
	.25	.40	.65	5.00

## Reliable Show Bands

Made of aluminum with celluloid plates. Adjustable. Same colors as Victor. Numbered 1 to 100. Postpaid.



Box of 12.....	.30
Box of 25.....	.60
Box of 50.....	1.15
Box of 100.....	2.00

## Oat Sprouters

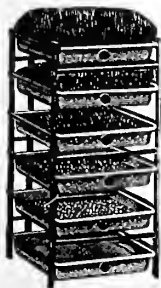
The frame is of steel, well braced and neatly painted. Has six heavy galvanized iron pans. Five of the pans have perforated bottoms to secure the proper drainage, and the bottom pan is solid to hold the drippings. Pans are interchangeable. Sectional frame can be quickly taken apart and stored in a small space.

The best results are obtained if the sprouter is placed in a cellar near the furnace or in a room with a temperature of 65 to 70 degrees. Use good oats and soak them in water for about 12 hours, then fill the trays to a depth of about 1 inch. Sprinkle and stir with a paddle EACH DAY until they sprout. Then discontinue stirring, but continue to sprinkle daily.

No lamp or heater required.  
Total height of frame, 3 feet.  
Size of pans, 16 inches by 18 inches.

Packed knocked down, one in a crate.

No. 110—Oat Sprouter. Each, F. O. B. Dallas .....\$5.95



## Victor Show Bands

Made of aluminum with celluloid number plates, adjustable to fit any size leg. 4 colors: Red, blue, green, yellow. Numbered 1 to 200. Postpaid prices. Boxes of 12.....\$ .50 Boxes of 50.....\$1.85 Boxes of 25.....1.00 Boxes of 100....3.50



## Pigeon Bands

Double numbers on colors; come 25 to the bunch.

Per 25 pair, postpaid .....85c

## Colored Leg Bands

Made of celluloid, in fast colors. Keep their shape. Light in weight and very durable. Quickly put on or removed. Put up regularly 50 bands of a size and color in a bundle. Colors: White, black, red, green, blue and yellow. Postpaid prices.

No.	For	Size	25	50	100	500	1000
4	Baby Chicks.....	1/4 in.	\$.15	\$.25	\$.35	\$1.45	\$2.50
5	Pigeons.....	5/16 in.	.15	.25	.35	1.50	2.75
6	Growing Chicks.....	3/8 in.	.20	.30	.50	2.00	3.50
8	Leghorns and Anconas.....	1/2 in.	.20	.30	.55	2.20	3.80
9	Large Leghorns.....	9/16 in.	.20	.30	.55	2.30	4.00
10	Small American.....	5/8 in.	.25	.35	.60	2.30	4.00
12	Asiatic Hens.....	3/4 in.	.25	.40	.75	3.00	5.50
14	Turkey Hens.....	7/8 in.	.30	.60	1.10	5.00	9.50
16	Turkey Toms.....	1 in.	.40	.75	1.40	5.50	10.00



## Bandettes

Made in 4 colors: Blue, red, yellow, green. Three sizes: No. 4 for baby chicks, No. 9 for Leghorns, and No. 11 for Rocks, Reds, etc.

Sold only in unbroken sets of 25 in one color: 1-25, 26-50, and so on. Numbers to 200 in yellow and green; 600 in red and blue. Special orders above those numbers.

### POSTPAID PRICES:

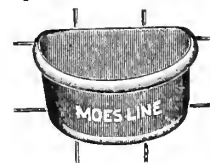
No.	25	50	100	500	1000
4.....	\$.40	\$.70	\$1.25	\$5.35	\$10.00
9.....	.60	1.00	1.80	8.50	16.50
11.....	.60	1.00	1.80	8.50	16.50



## Feed and Water Cups

A practical, convenient and durable cup for exhibition coops. Drawn from one piece of heavy terne plate, a rust-resisting metal. No seams or solder. Dimensions, 4½ in. long, 3 in. wide and 2 in. deep. Capacity, about ½ pint. Packed 6 dozen in a carton. Shipping weight, 17 lbs. per carton.

No. 61—Exhibition Cups. Each, F. O. B. Dallas .....15c

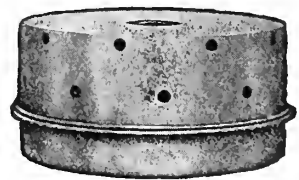


## Little Putnam Stoves

BURNS A MONTH WITHOUT ATTENTION

The most satisfactory heater for poultry fountains and home-made oat sprouters. May be used under any can, crack or fountain. Plans for making a home-made oat sprouter packed with every stove.

Price, delivered to you...\$2.00  
Wicks for the above: Each, 3c;  
dozen, 20c.  
Wicks and Holders: Each, 10c;  
dozen 75c.



## There Are Four Essentials of Poultry Health

LICE CONTROL—MITE CONTROL—GERM AND SANITATION CONTROL—WORM CONTROL

The remedies listed on these pages are proven to control the things for which they are recommended. We do not believe that curative measures are nearly so effective as are preventive measures and we urge every poultryman to keep his premises clean—house his flock comfortably—secure good stock and feed properly, doing which he will have comparatively little trouble from disease. Control lice, mites and worms—and keep your premises clean; and make profits from your flock.

### "Black Leaf 40" Kills Poultry Lice

lice worry your hens and if permitted to breed and continue to pester them, will eventually stop all egg production and have even been known to kill poultry. When chickens perch upon roosts that have been painted with "Black Leaf 40", the heat from their bodies causes a slow release of fumes which penetrate the feathers and kill the lice—without discomfort to the birds. This treatment does away with all individual handling of the birds and of course will not interfere with egg production. "Black Leaf 40" also controls the feather mite.

Apply one ounce to 12 or 15 running feet of roost, or one pound to 200 feet of roost.

Size	F.O.B. Dallas	Size	F.O.B. Dallas
1 oz.....	\$0.35	2 lbs.....	\$ 3.75
5 oz.....	1.00	5 lbs.....	7.00
1 lb.....	2.50	10 lbs.....	11.85

Black Leaf 40 is a poison and must be sent by express or freight. Not accepted by post office.



This is the simplest way in which to kill lice, since all you need do is to paint it on the roosts shortly before the birds go in for the night. Poultry

### Sodium Fluoride

A POSITIVE LICE CONTROL RECOMMENDED BY THE U. S. DEPARTMENT OF AGRICULTURE

This frees poultry from lice when used as a dusting powder or dip. Also protects your home from roaches, flies, ants, etc. Whether this powder is dusted on your flock or the birds are dipped, you will find it will kill all the lice, provided the work is done right.

Size	F. O. B. Dallas
1/2 lb. can.....	\$0.25
1 lb. can.....	.40
5 lb. bags.....	1.25

### You Can Positively Control Mites

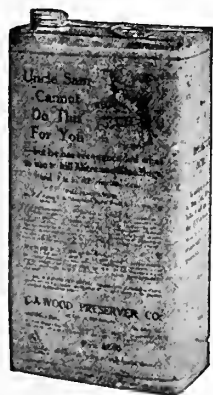
IF YOU USE

#### C-A Wood Preserver (CARBOLINEUM AMERICA)

The government recommends a high boiled anthracene oil, known as carbolineum, for the extermination and absolute control of mites and we offer the best carbolineum we have found on the market. Our carbolineum is of such high grade—and the evaporation is so slow, that one application will last a year; absolutely controls the mite situation for you for one year. Can be sprayed or painted as you prefer. Full directions come on the can and you should read these directions carefully before applying.

#### DELIVERED PRICES

1 quart....	\$0.75	1 gallon....	\$2.00
1/2 gallon....	1.25	5 gallons....	8.50



### Proven Remedies

**BARNES CHICKEN POX REMEDY**—An effective remedy for Chicken Pox, used in the drinking water. 175 tablets, 50c; 465 tablets, \$1.00; postpaid.

**BARNES COLD REMEDY**—Powerful and quick. You should have this on hand for emergency flock treatment at all times. 2-oz. bottle, 50c; 6-oz. bottle, \$1.00; 16-oz. bottle, \$2.00; postpaid.

**BARNES DIARRHEA REMEDY**—Has proven to be exceptionally effective. For use either in water or mash. 6 oz., 35c; pints, 65c; gallons, \$3.00; postpaid.

**BARNES EMBROCATION**—This is a remedy to be applied direct in cases of roup, colds, swelled heads, cankers, chicken pox, sore eyes, scaly legs, pick-toe, rump picking and feather pulling. It is a thick fluid, which has proven to be a real boon to those who keep it handy for quick treatments. 2-oz. bottle, 50c; 4-oz. bottle, \$1.00; postpaid.

### Protect Your Flock From Germs by Using



B-K is a powerful germ killer. It is not a poison, but is ten times more powerful as a germ killer, than carbolic acid. B-K is in liquid form, very simple to use. Acts as a preventive of roup, colds, bronchitis, cholera and white diarrhea in poultry.

Prevention of disease is much easier and cheaper than its cure. Keep your poultry houses clean—sterilize frequently—and the chance of disease will be cut to a minimum. Feeding B-K in the drinking water prevents the spread of disease.

B-K is simple to use—safe—and inexpensive. You cannot afford to be without it. Full directions come with each package.

	F. O. B. Dallas
4 oz.....	\$ 0.35
10 oz.....	.60
1 qt.....	1.25
1 gal.....	3.00
5 gal.....	12.50

### Worm Control

There is much difference of opinion as to the most practical method of controlling worms. We favor methods which do not throw birds off egg production—which means that some other form than an expellent must be used. Anything of sufficient strength to expel worms is almost certain to stop egg production until the hen has recovered from the effects of the expellent. A good tonic will aid in overcoming the effects of an expellent.

### Tobacco Dust

This is a proven expellent, frequently recommended by State Experiment Stations. It is fed in the mash, 2 lbs. to the 100 lbs. of mash, for three days; then discontinued for three weeks; fed again for three days, discontinued for three weeks and a final three day feeding follows. After each feeding, some epsom salts should be fed for a day to remove the effects of the tobacco dust.

Guaranteed 1% tobacco dust. Prices: Lb. 10c; 3 lbs. 25c; 10 lbs. 75c; 100 lbs. \$6.50; F. O. B. Dallas.

### Lee's Gizzard Capsules

This capsule is insoluble, passing through the mouth, throat, crop and stomach of the fowl to the gizzard, where it is ground up, and pours the full strength of the medicine directly into the intestines, upon the worms. It expels tape worms, round worms and pin worms.

The capsule should be dropped into the chicken's throat, which may be done at night, while fowls are on the roost. No previous preparation is necessary. Comes in two sizes—for chicks and for grown fowls.

### Barnes Emulsion

Barnes Emulsion has been a most effective worm control and vitality builder for fourteen years. It is not an expellent, but is a safe and effective worm digester. We have been watching its results for many years now, and when used according to directions, we have not known it to fail except where grounds are so badly worm infested that the only possible way to overcome the condition is to remove to other grounds.

We recommend feeding in the water, beginning with the first day, for a month; and after that feeding the first ten days of each month, for a permanent and effective worm control.

If you prefer an expellent, you will find no better tonic to bring birds back into egg production than Barnes Emulsion.

Ask for a free copy of Dr. Barnes' Booklet, "Common Sense vs. Worms."

Prices: Qt. \$1.00; gal. \$3.00; 5 gal. \$12.50; postpaid.



POULTRY PROFITS ARE ALWAYS IN PROPORTION TO CAREFUL MANAGEMENT.



## Carbola

IS A WHITE PAINT AND A POWERFUL DISINFECTANT COMBINED IN POWDER FORM

It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with spray pump or brush. Dries pure white. Does not flake or peel off.

You just pour some of the Carbola powder into a pail of water and it is ready in a minute or two—absolutely no waiting or straining. It will not clog the sprayer, blister, flake or peel off and doesn't spoil by standing even after it is mixed with water.

Carbola helps control disease germs, lice and mites. There is nothing better than Carbola to help make buildings clean, sweet-smelling and sanitary and it is specially recommended for use in POULTRY HOUSES, KENNELS, CREAMERIES, STABLES, HOG HOUSES, FACTORIES, CELLARS, RABBIT HUTCHES, WAREHOUSES.

What the Hillcrest Everlay Farms say of Carbola:

"Candidly we have found Carbola the best article of its kind we ever used. Aside from its disinfecting qualities, it is worth its cost as a whitewash. We have used the dry powder as a louse killer and find it very satisfactory. We spray our houses with it, dust our hens, dust the nests and brooders and use a thin mixture for washing out our incubators."

Size	Each
5 lb. packages.....	\$0.75
10 lb. packages.....	1.25
25 lb. packages.....	2.85
50 lb. packages.....	5.00

F. O. B. Dallas. Add postage if wanted by mail.



## Cod Liver Oil

For use in the feed. "Bottled Sunshine," high in vitamin content. We have a guaranteed vitamin content of 500 Vitamin A and 250 Vitamin D. This is a splendid bone-builder.

1 gallon, F. O. B. Dallas. Shipping weight, 10 lbs.....	\$2.00
5 gallons, F. O. B. Dallas. Shipping weight, 50 lbs. per gal....	1.96
30 gallons, F. O. B. Dallas. Shipping weight, 275 lbs. per gal....	1.75

## Lee's Germozone

Liquid. A well known germicide of growing popularity.

4 oz., F. O. B. Dallas.....	\$0.40
12 oz., F. O. B. Dallas.....	.75
32 oz., F. O. B. Dallas.....	1.50
1 gal., F. O. B. Dallas.....	4.50

## Epsom Salts

A home remedy with which everyone is familiar. When tobacco dust is used for worming, salts should be fed afterward. Salts should be kept clean and dry at all times. We recommend that it be fed one pound to 125 fowls over six months old; one pound to 150 fowls from five to six months old; one pound to 300 fowls three to five months old; one pound to 400 fowls two to three months old, and one pound to 500 fowls six to eight weeks old.

1 lb., F. O. B. Dallas.....	\$0.10
3 lbs., F. O. B. Dallas.....	.25
10 lbs., F. O. B. Dallas.....	.75
100 lbs., F. O. B. Dallas.....	6.50

## Disinfectant---Purifier---Germicide---Deodorant

THE SURE GERM KILLER

STERILAC has overcome all disadvantages of other chlorine disinfectants and germicides. It comes in powder form—and you do not have to pay heavy freight charges on water which can be added just as well by you as by anyone else. Being in powder form, there is less possibility of deterioration when subjected to air than when held in suspended form in water. It may be used in either hot or cold water, whereas in the past, such germicides deteriorated when placed in hot water.

STERILAC is 45 times stronger than carbolic acid as a germicide, yet it can be used without danger of poisoning.

STERILAC is especially effective for colds, roup, chicken pox and infectious bronchitis.

A one-pound bottle of STERILAC will make 480 gallons of sufficient strength for most purposes. Each gallon of solution will cost about one cent.

STERILAC is the most efficient disinfectant and deodorant for the dairy; the perfect sterilizer for the home. Write for Sterilac Book-

lets: "Sterilac for the Poultryman," "Sterilac for the Dairyman," "Sterilac in the Home."

Postpaid prices: 2 oz. bottle \$1.00; 8 oz. bottle \$2.50; 16 oz. bottle \$4.50; 5 lb. can \$16.75.



## Sulphur

Another home remedy which is quite effective. A preventive of sorehead and chicken pox and often fed to remove lice. Many patent remedies for the removal of lice and mites are nothing but sulphur and water. We do not recommend this, since it does not destroy the pest and as soon as the remedy is discontinued, the fowl is back in the same condition. Sulphur is good for the prevention of sorehead and chicken pox, however.

1 lb., F. O. B. Dallas.....	10c	10 lbs., F. O. B. Dallas.....	75c
3 lbs., F. O. B. Dallas.....	25c	100 lbs., F. O. B. Dallas.....	\$6.50

## PAR-I-NOX gets LICE and gets them NOW!



This amazing lice destroyer will save many times its small cost in increased egg yield and it will positively demonstrate to your entire satisfaction in fifteen minutes. LOUSY HENS COST

MONEY—DON'T WAIT, but rid your flocks now of these blood-sucking pests.

PAR-I-NOX costs only two cents per hen per year and with this economical lice destroyer you eliminate spraying, dusting and dipping hours of needless work. Just sift a small amount of PAR-

I-NOX in the dust wallows, nests, dropping boards, and on the floor and then watch the dead lice start dropping off your hens. Delivered prices: 12 oz. 35c; 1/2 lb. 50c; 3 lbs. 90c; 6 lbs. \$1.35; 25 lb. pails \$4.50.

## Toe-Pick Remedy

Stops cannibalism promptly. We recommend this unqualifiedly. You should have some of this on hand at all times. Prices: Box 50c; F. O. B. Dallas.

## Walko White Diarrhoea Remedy

One of the best known and most generally used diarrhoea remedies on the market. Good for roup and cholera. Price: Boxes 50c and \$1.00; F. O. B. Dallas.

## For Roup

Watch your hens for the danger signs, swollen eyes, sneezing watery discharges, or cheesy formation in the nostrils, these signs are certain indications of roup. RED ROOSTER ROUP REMEDY is sure protection against ROUP and WHITE DIARRHEA. Don't be caught unprepared, have a bottle of RED ROOSTER on hand at all times, as when used it will immediately remove the source of infection. Delivered prices: 8 oz. 60c; 16 oz. \$1.00.

## Double D Flock Wormer

AN ECONOMICAL WORMER

which is fed in the drinking water, and gives the entire flock treatment without the labor of handling each bird. This wormer gets the worms, cuts down your feed cost, and enables you to get more eggs. Delivered prices: 8 oz. 60c; 16 oz. \$1.00.



## Double D Tonic

INCREASES THE VITALITY OF YOUR BIRDS

It is a preventive of roup, colds, white diarrhoea, and coecidiosis. Very beneficial to feed baby chicks, economical to use, as hens require it only once a week to keep in tip-top condition. Prices delivered: 8 oz. 60c; 16 oz. \$1.00.

## Care of Birds

The care of birds of all kinds is extremely simple. Proper food, plenty of fresh water, absolute cage sanitation—and your bird will live its allotted life. Care should of course be used to see that birds are not placed in draughts. Cage birds are not accustomed to draughts and cannot endure them without developing colds and often pneumonia.

The dealer from whom you purchase your bird is the logical party to tell you what to feed it and how to take care of it—and you should be sure to ask for this information.

Cage sanitation implies a daily change and cleaning of the cage. For the smaller birds, sand should be kept in the bottom of the cage,

and this sand should be changed daily. Parrots should have grit in the bottom of their cage, or poultry lifter, and this should also be changed daily. If you use a litter in the bottom of the cage, we suggest that a small cup of grit be made available for the bird, also.

Fresh water is essential. All birds must have water and it should be furnished fresh daily or twice a day.

Birds should be kept free from mites, lice, etc. These pests will kill your pets if allowed to breed without disturbance. Mite powders applied to the birds are good. Cages should also be freed either with scalding water or gasoline dips.

Write for our free booklet, "Canaries for Pleasure and Profit."

## Bird Foods

PROVEN TO BE THE BEST FROM OUR MANY YEARS USE

### Bulk Seeds

**MAGNOLIA CANARY MIXTURE**—A mixture of Sicily Canary, German Rape, millet and hemp, in the proper proportions for canary health. **Lb. 20c; 2 lbs. 35c; 7 lbs. \$1.00.**

**MAGNOLIA ROLLER MIXTURE**—A mixture of Sicily Canary, German Rape and Millet, designed for best song production. **Lb. 20c; 2 lbs. 35c; 7 lbs. \$1.00.**

**MAGNOLIA LOVE BIRD MIXTURE**—A mixture of Sicily Canary and millet, balanced for Love birds. **Lb. 20c; 2 lbs. 35c; 7 lbs. \$1.00.**

**MAGNOLIA FINCH MIXTURE**—Consisting of millet, canary and thistle for strawberry finches and goldfinches. In ordering, be sure to state type of finch for which food is wished. **Lb. 25c; 2 lbs. 45c; 5 lbs. \$1.00.**

**SICILY CANARY SEED**—A splendid diet for reconditioning a canary which is not responding to usual treatment. Feed for a month with only a tonic of apple about twice each week. **Lb. 20c; 2 lbs. 35c; 7 lbs. \$1.00.**

**HEMP**—Good parrot food and also much liked by bee bee paroquets and cardinals. Should be fed to canaries in very limited quantities as it is too rich a food for them. **Lb. 20c; 2 lbs. 35c; 8 lbs. \$1.00.**

**MAW or POPPY SEED**—Another popular seed with canaries and some of the finch family. **Lb. 45c.**

**MILLET**—Frequently used as the principal food for strawberry finches. **Lb. 20c; 2 lbs. 35c; 7 lbs. \$1.00.**

**GERMAN RAPE**—A song food which should be combined with Sicily Canary and other seeds. **Lb. 25c; 2 lbs. 45c; 5 lbs. \$1.00.**

**RECLEANED SUNFLOWER SEED**—Fine for parrots—in fact, their main food. **Lb. 20c; 2 lbs. 35c; 8 lbs. \$1.00.**

**THISTLE SEED**—The principal food for goldfinches, and liked by canaries, strawberry finches and practically all hard-billed birds. **Lb. 60c.**

All of our bulk seeds are the finest the market affords, double re-cleaned in order to remove all foreign particles and dust.



### Other Seeds and Foods

**MAGIC SONG RESTORER**—A mixture that birds like and which brings them into song quickly. It also keeps them in song, hastens moults and is a general health food of much value. We recommend an egg food cup of this daily or every other day in addition to the regular food. **Per box 30c; 4 boxes \$1.00; doz. \$2.50.**

**CUTTLE BONE**—Should be in every canary, finch, hard-billed bird's cage. **With holder, small size, 5c; with holder, large size 10c.**

**CHARCOAL**—A purifier for the system. **Each 10c.**

**FRUIT AND HONEY BALLS**—A pleasing addition to the regular diet and splendid for song. **Each 15c; 2 for 25c; 12 for \$1.50.**

**COLOR FOOD**—Canary color food, which should be fed during the moulting period. Makes a beautiful, deep yellow feather coloring. **Each 25c.**

**EGG BREAD**—A good food for the young and also for feeding during early moult. **Each 25c.**

**BIRD NIP**—A health food which all birds enjoy immensely. Hangs from the top of the cage. **Each 10c; doz. \$1.00.**

**RAPE AND CANARY SEED**—The mixture of these two conditioning and song foods is ideal. The finest of rape and canary seed are used, and if you gave your bird no other food, he could be happy on this. Spout top can. **Each 25c.**

**WEST'S BEST BRAND BIRD SEED**—A good canary mixture that pleases the birds. Spout top can. **Each 25c.**

**VITAMIN SONG FOOD**—A good song restorer, which is growing in favor. **Each 25c.**

**SPECIAL MATING FOOD**—The ideal food to increase the vitality of your breeding stock; the fertility of their eggs and strength of their young. Should be fed all during the mating and nestling period. **Large box 35c.**

**MOULTING FOOD**—Brings the bird through the moulting period quickly and restores song at the same time. **Each 25c.**

**COD LIVER OIL NESTLING FOOD**—A splendid food for the young, combined with cod liver oil and all other foods needed for bone and vitality building. **Each 25c.**



Fruit and Honey.



Nest.



Egg Food Cup.



Bird Nip.

**GOLDEN SPRAY GRAVEL**—A fine sand, for use in the bottom of the cage. Comes in a convenient spout can for easy pouring. **Each 15c.**

**HEALTH BELLS**—A mixture of seeds for health and song, with a brass, ringing bell attached to the seed bell. An ideal novelty for the bird. **Each 15c; 2 for 25c; doz. \$1.50.**

**MAGNESIAN GRIT**—Keeps your bird in perfect health and song. It should be in the bottom of the cage of every canary. It aids digestion, containing lime and magnesia, two elements necessary to the health of all animal life. It also contains flaked charcoal, which purifies the system and acts as a tonic. Be sure to keep Magnesian Grit in the bottom of your bird's cage. Comes in convenient spout top can for ready use. **Each 15c.**

**MOCKING BIRD FOOD**—Just the thing for mocking birds, who require a varied diet. **Large box, each 40c.**

**BIRD MANNA**—A song food which has been a favorite for a long time. Similar to Fruit and Honey, Bird Nip and Health Bells. **Each 15c; 2 for 25c.**

### Remedies

**BIRD AND ANIMAL SALVE**—Gives immediate relief and cures sores quickly. Poultrymen find it fine for scaly legs and bleeding combs. **Per jar 25c.**

**DIARRHOEA RELIEF**—A few drops on sugar in cage relieves in a few days' time. **Per bottle 25c.**

**LIQUID BIRD TONIC AND BITTERS**—For colds, shedding of feathers out of season and loss of voice. Full directions for treatment come with tonic. **Per bottle 25c.**

**LICE POWDER**—In Bellow box. This is indispensable to every bird owner. Never let lice trouble your birds. **Per box 15c.**

**BIRD WASH**—To be used in the daily bath when your bird is suffering from loss of feathers. Be sure to free your bird of lice, after which the Wash will remove the irritation and enable the new quills to appear. **Per bottle 25c.**

**PARROT TONIC**—For colds, shedding of feathers, and a general conditioner. Every parrot owner should have some of this tonic for emergencies. **Per bottle 25c.**



### Cage Supplies

Item		
Egg Food Cup	..... Ea. .05; doz. \$ .30	Each
Opal Bath Tubs, 4 1/4-inch	.....	.10
Opal Bath Tubs, 5 3/4-inch	.....	.15
Green Glass Bath Tubs	.....	.15
Blue Glass Bath Tubs	.....	.15
Wall Brackets, nickel, 12-inch, Style Q	.....	.15
Wall Brackets, brass, 12-inch, Style 1	.....	.15
Cage Springs, medium	.....	.10
Cage Springs, small	.....	.10
Brass Chains and Springs	.....	.15
Feed Cups:		
Opal. Open or closed top	..... Ea. .15; 2 for	.25
Crystal. Open or closed top	..... Ea. .15; 2 for	.25
Green Glass	..... Ea. .15; 2 for	.25
Bird Nests	..... Ea. .15; 2 for	.25
Nesting Hair	.....	.10
Parrot Books	.....	.35
Canary Books	.....	.35
Leg Bands, aluminum (open or closed)	.....	.20
Leg Bands, colored	.....	.20
Cage Swings	.....	.10
Perch Stock (Can be cut to fit), 3 ft.	.....	.15



Bath Tub.



Closed Cup.



Open Cup.



Spring.

ALL PRICES F. O. B. DALLAS. INCLUDE POSTAGE WHEN ORDERING BY MAIL.

# WHOLESALE PRICE LIST

## FOR DEALERS ONLY

# SHERMAN-MAGNOLIA SEED COMPANY

*Poultry Supply Headquarters*

945 S. Lamar Street

Dallas, Texas

**Wholesale Net Prices Applying to Poultry Supply Section  
of 1932 Catalog. Effective January 1, 1932**

**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**

All prices are F. O. B. Dallas, Texas, unless otherwise stated.

One asterisk (\*) indicates that the item so marked carries a freight allowance to destination, when ordered in quantities of 100 lbs. or more, and also carries a cash discount of 5% when ordered in that quantity and when cash accompanies order, or we are instructed to send C. O. D.

**TERMS OF SALE:** Unless your credit has been established with us, cash should accompany order, or a cash deposit of 20% made with the order, with instructions to ship balance C.O.D. Where credit has been established, merchandise is sold on terms of 2% cash discount for remittance within ten days after date of invoice, 30 days net, subject to draft if not paid within 45 days after date of invoice.

**SPECIAL NOTE** — If you desire to open an account with us, please furnish us a financial statement and give us bank references and the names of several companies with whom you have open accounts, also allow at least 10 days' time in which to enable us to secure the required credit information.

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COMPRESSED AIR SPRAYERS:			
125-G Economy-Galv.	1 to carton	11 lbs.	\$3.60
125-B Economy-Brass	1 to carton	11 lbs.	5.40
135 Climax-Galv.	1 to carton	10 lbs.	2.80
4 ROW FIELD SPRAYER:			
No.	Name	Packed	Shipping Wt. Each
14	Sprayer complete	1 to carton	57 lbs. \$20.35
27	Boom only	1 to carton	25 lbs. 11.65
DUSTERS:			
603	Crank	1 to carton	10 lbs. Ea. \$7.25
665	Major	12 to carton	19 lbs. Doz. 9.00
665-A	Major	12 to carton	23 lbs. Doz. 9.30
WHEEL SPRAYERS:			
37-S	Sunshine	1 to carton	60 lbs. \$21.15
36-S	Sunshine	1 to carton	46 lbs. 12.10
31	Ensign	1 to carton	40 lbs. 9.00
HAND SPRAYERS:			
432	Continuous	12 to carton	15 lbs. \$6.25
452	Utility	12 to carton	15 lbs. 3.25

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WRITE FOR SPECIAL PRICE LIST ON INSECTICIDES.

## PAGE 48

INSULATED BATTERY BROODER:			
P2-54-E	4 Compartment Electric	243 lbs.	\$48.95
P2-66-E	6 Compartment Electric	340 lbs.	65.25
P2-54	4 Compartment Oil	270 lbs.	47.95
P2-66	6 Compartment Oil	370 lbs.	64.75

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FINISHING BATTERIES:			
1237	8 Comp. Battery	Shipping Wt. 218 lbs.	F.O.B. Factory Ea. \$30.00
		10 or more	Ea. 27.00
1235	8 Comp. Hen Battery	284 lbs.	Ea. 38.00
		5 or more	Ea. 36.00
1235-B	8 Comp. Broiler Battery	284 lbs.	Ea. 39.00
		5 or more	Ea. 37.00
1236	16 Comp. Hen Battery	425 lbs.	Ea. 50.00
		5 or more	Ea. 47.50
1236-B	16 Comp. Broiler Battery	425 lbs.	Ea. 51.00
		5 or more	Ea. 48.50
Extra Metal Trough for any of above			
COOPS:			
1204	Shipping Coop	10 to bundle 300 lbs.	\$2.50
EXHIBITION COOPS:			
	Shpg.	1-50	50 & above
Size	Packed	Wt.	Each
Single	10 to Bundle	120 lbs.	\$1.45 \$1.35
Double	10 to Bundle	180 lbs.	2.65 2.55
Turkey	10 to Bundle	302 lbs.	3.65 3.50
Partitions	Fit Doubles	80 lbs.	.37 .35

## PAGE 50

SILVER HEN BROODERS:			
C2-1330	Element Heated	1 to Carton	26 lbs. \$6.95
C2-1335	Bulb Heated	1 to Carton	25 lbs. 5.50
C2-1430	Oil Heated	1 to Carton	28 lbs. 6.95
C2-16	Rack	1 to Carton	45 lbs. 8.35
	Heat Bulbs		.45
GRO-MOR BROODERS:			
Type	Packed	Shipping Wt.	Less than Case
Electric	3 to Carton	28 lbs.	\$1.85 \$1.75
Not Electric	6 to Carton	45 lbs.	1.45 1.40
Special Heat Bulbs			Doz. 4.80
JUNIOR BROODERS:			
22-inch	Electric	1 to Carton	10 lbs. \$2.60
Special Heat Bulbs			.45
22-inch	Oil	1 to Carton	10 lbs. Doz. 4.80
PUTNAM BROODER HEATERS:			
	Packed	Shpg.	Less than Case
	to Case	Wt.	Case Lots
Heater, complete	6	33 lbs.	\$3.50 Ea. \$3.20 Ea.
Wicks			.25 Doz.
Wicks and Holder			1.00 Doz.
House Plans for Putnam Brooders			.70 Ea.

## PAGE 51

MAGNOLIA KER-O-STAT BROODERS:			
Size	Shpg. Wt.	Heater only	Canopy only
35-inch	36 lbs.	\$7.75	\$2.25
45-inch	42 lbs.	7.75	3.35
55-inch	46 lbs.	8.95	3.95
Lighting Rings for above			1.65 Doz.
Oil Reservoir			.95 Ea.
Ball for Reservoir			.20 Ea.
Pilot Wicks			.10 Ea.
Oil Valve			.28 Ea.
Band for Reservoir			.20 Ea.
MAGNOLIA SIMPLICITY:			
		Heater only	Canopy only
35-inch	32 lbs.	\$5.75	\$2.25
45 inch	37 lbs.	5.45	3.15
55-inch	41 lbs.	6.15	3.65
Pilot Wicks			.10 Ea.
Lighting Rings			1.65 Doz.

## PAGE 51—Continued

Oil Reservoir			.95 Ea.
Ball for Reservoir			.20 Ea.
Oil Valve for Reservoir			.28 Ea.
Band for Reservoir			.20 Ea.
MAGNOLIA GAS BROODERS:			
			Each
29-inch		22 lbs.	\$6.00
45-inch		27 lbs.	7.35
55-inch		31 lbs.	8.15
Automatic Gas Valve only			2.40

## PAGE 52

STANDARD OIL-O-STAT BROODERS:			
Standard, without canopy		80 lbs.	Each \$18.50
56-inch		100 lbs.	21.50
65-inch		110 lbs.	22.95
SENIOR OIL-O-STAT:			
Senior, complete	Shpg. Wt.	118 lbs.	F.O.B. Factory \$21.95
STANDARD COAL BROODERS:			
Size	Shpg. Wt.	Stove only	Canopy only
47-inch	75 lbs.	\$ 8.50	\$2.35
56-inch	103 lbs.	9.95	3.95
65-inch	112 lbs.	10.75	5.65

## PAGE 53

MAGNOLIA ELECT-O-STAT:			
Size	Shipping Wt.		Price
47-inch	45 lbs.		\$13.50
56-inch	55 lbs.		16.50
65-inch	67 lbs.		18.95
Heater Assembly Only	15 lbs.		8.45
CEL-O-GLASS:			
Roll of 300 square feet	Shipping Wt. 45 lbs.		Price \$30.38
1/4 Roll			15.19
1/4 Roll			7.59
MAGNOLIA FIBRE-FREE			
POULTRY LITTER: Approx.	1 to 10	10 to 50	50 & over
Coverage	Shpg. Wt. Per bale	Per bale	Per bale
240 ft., 1 in. thick	150 lbs.	\$2.75	\$2.65
80 ft., 1 in. thick	50 lbs.	1.35	1.30
GRIT, OYSTER SHELL AND CHARCOAL:			
	Per Sack	Less than Sack Lots	Sack Lots
Grit	100 lbs.	\$0.02 lb.	\$1.25 cwt.
Oyster Shell	100 lbs.	.02 lb.	1.25 cwt.
Charcoal	50 lbs.	.05 lb.	3.75 cwt.

## PAGE 54

GRILL TYPE MASH FEEDER:			
G4S	2 to Carton	21 lbs.	Each \$2.40
OUTDOOR GROWING CHICK FEEDER:			
No.	Packed	Shipping Wt.	Each
CF24W	1 to Carton	9 lbs.	\$1.20
CF36W	1 to Carton	13 lbs.	1.60
CF1B	1 to Carton	16 lbs.	2.00
GROWING CHICK FEEDER:			
CF21	6 to Carton	34 lbs.	Shipping Wt. \$0.77
CF36	3 to Carton	25 lbs.	Each 1.28
CHICK AND BROILER FEEDER:			
G30	4 to Carton	19 lbs.	Each \$ .85
G48	4 to Carton	27 lbs.	Each 1.15
HUDSON REEL FEEDER:			
R-12	12 to Carton	15 lbs.	Each \$ .19
R-24	12 to Carton	28 lbs.	Dozen \$2.10
R-36	6 to Carton	21 lbs.	.37 4.25
R-28	6 to Carton	12 lbs.	.55 6.35
ADJUSTABLE CHICK TROUGH:			Each 6.25
OF24	12 to Carton	15 lbs.	Dozen \$3.15
OF36	6 to Carton	16 lbs.	.37 4.25
KLONDIKE FEEDERS—DELUXE:			
Size	Metal	Packed	Wt.
28-inch	Galvanized	6 to Carton	36 lbs. \$ .70 \$ 8.00
48-inch	Galvanized	6 to Carton	48 lbs. 1.05 12.00
28-inch	Charcoal Tin	6 to Carton	36 lbs. .85 10.00
48-inch	Charcoal Tin	6 to Carton	48 lbs. 1.20 14.00
KLONDIKE FEEDERS—UTILITY:			
12-inch	Galvanized	24 to Carton	48 lbs. .19 2.00
24-inch	Galvanized	12 to Carton	36 lbs. .35 4.00
48-inch	Galvanized	12 to Carton	54 lbs. .70 8.00
24-inch	Charcoal Tin	12 to Carton	36 lbs. .53 6.00

## PAGE 55

LONG BOY FEEDER:			
3 ft.	1 to Carton	15 lbs.	Shipping Wt. \$2.95
6 ft.	1 to Carton	25 lbs.	4.45
MAGNOLIA BABY CHICK TROUGHS:			
24-inch	24 to Box	13 lbs.	Each \$ .22 \$2.60
36-inch	12 to Box	23 lbs.	.32 3.60
ROUND CHICK FEEDERS:			
G8	36 to Box	9 lbs.	Each \$ .08 \$ .85
G12	24 to Box	13 lbs.	.12 1.30
T8	36 to Box	9 lbs.	.11 1.15
T12	24 to Box	13 lbs.	.20 2.20
WIRE GUARD FEEDERS:			
N-15	24 to Carton	16 lbs.	Each \$ .15 \$1.70
N-24	12 to Carton	11 lbs.	.20 2.15
LARGE CAPACITY FEEDERS:			
140	6 to Box	25 lbs.	Each \$ .72 \$ 8.50
141	3 to Box	21 lbs.	1.05 12.50

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DOUBLE FEEDING TROUGHS:				Each	Dozen
58	12 in Box	13 lbs.		\$ .22	\$2.40
59	12 in Box	17 lbs.		.28	3.20
60	12 in Box	22 lbs.		.35	4.00
76	12 in Box	35 lbs.		.48	5.60
ECLIPSE FEEDING TROUGHS:				Each	Dozen
27	24 in Box	17 lbs.		\$ .14	\$1.50
28	12 in Box	15 lbs.		.22	2.40
137	24 in Box	14 lbs.		.20	2.25
138	12 in Box	13 lbs.		.28	3.20
HOG TROUGHS:				Shipping Wt.	Each
NH2	6 in Bundle	33 lbs.			\$ .50
NH4	6 in Bundle	60 lbs.			1.00
NH6	3 in Bundle	53 lbs.			1.62
NH8	3 in Bundle	69 lbs.			2.10
METAL NESTS:				Packed Shipping Wt.	Each
6M	1 to Carton	41 lbs.			\$ 4.90
10M	1 to Carton	65 lbs.			7.35
15M	1 to Carton	83 lbs.			10.25
30	Sets as needed	2 lbs. each			.28

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FOUNTS:				Packed Shipping Wt.	Each
16	1 to Carton	15 lbs.			\$3.75
B-16	1 to Carton	25 lbs.			5.15
19	1 to Carton	18 lbs.			5.10
B-19	1 to Carton	28 lbs.			6.50
B-20	1 to Carton	29 lbs.			7.20
LARGE CAPACITY FOUNTS:				Shipping Wt.	Each
C-5	1 to Carton	11 lbs.			\$1.85
05	1 to Carton	15 lbs.			2.80
05-B	1 to Carton	25 lbs.			4.25
FOUNTAIN OR BROODER HEATER:				Shipping Wt.	Each
18	3 to Carton	16 lbs.			\$1.35
HANDY FILL CHICK FOUNTAIN:				Each	Dozen
C-2	4 to Carton	14 lbs.		\$ .80	\$ 9.60
C-3	4 to Carton	17 lbs.		1.00	12.00
EASY FILL FOUNTAIN:				Each	Dozen
01	12 to Carton	27 lbs.		\$ .35	\$4.20
02	12 to Carton	42 lbs.		.65	7.50
BOTTOM FILL FOUNTAINS:				Each	Dozen
B-1	24 to Carton	15 lbs.		\$ .19	\$2.10
B-2	24 to Carton	24 lbs.		.22	2.45
B-4	12 to Carton	19 lbs.		.32	3.70
MASON JAR FOUNTS:				Shipping Wt.	Dozen
G-25	3 Doz. to Carton	9 lbs.		\$ .65	\$7.75
T-25	3 Doz. to Carton	9 lbs.		.75	8.75

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NON-SPILL BUTTERMILK FEEDERS:				F.O.B. Factory	Crate
6	to Crate	80 lbs.		\$ 6.65	
24	to Crate	310 lbs.		10.92	
MAGNOLIA JAR FOUNTAINS:				Dozen	Gross
H2-6	24 to Carton	12 lbs.		\$ .75	\$8.95
FAMOUS JAR FOUNTS:				Shpg. Wt.	Dozen
32	72 to Carton	18 lbs.		\$ .65	\$6.75
133	72 to Carton	18 lbs.		.70	7.75
GLASS CLOTH:				Shipping Weight	Yard
Roll of 10 yards or up	53 lbs. per 100 yds.				\$ .22 1/2
CRYSTOL FABRIC:				Shipping Weight	Yard
Roll of 10 yards or up	35 lbs. per 100 yds.				\$ .15
SPIL-PRUF FOUNTAINS:				Each	Crate
2 Qt.	24 to Crate	168 lbs.		\$ .50	\$ 9.75
4 Qt.	24 to Crate	216 lbs.		.65	13.50
MAGNOLIA AUTOMATIC FOUNTAINS AND TROUGHS:				Type	Packed Shpg. Wt.
Magnolia Fount	12 to Carton	9 lbs.			\$1.00
Galvanized Trough	6 to Carton	25 lbs.			.55
Porcelain Trough	6 to Carton	36 lbs.			1.85
PERFECTION COLD PACK CANNER:				Each	Dozen
11	1 to Carton	15 lbs.		\$4.35	
12	1 to Carton	25 lbs.		6.00	

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STANDARD HATCHING EGG BOXES:				1-9 Doz. Over 10 Doz.	Doz.
Size	Packed	Shipping Wt.		Doz.	Doz.
15 Egg	12 to Bundle	11 1/2 lbs.		\$1.00	\$ .95
30 Egg	12 to Bundle	16 1/2 lbs.		1.80	1.75
FARMERS' FRIEND EGG CARRIERS:				Each	Dozen
12 Dozen	2 to Bundle	9 lbs.		\$ .95	\$10.50
Fillers and Flats, per set					.20
ACME EGG GRADING SCALES:				Each	Dozen
Packed 1 to Box	Shipping Weight, 3 lbs.				\$2.65
EGG STAMPS:				Quantity price for Change of Number only.	Quantity price for Change of Name only.
1 to 5				\$0.80 Ea.	\$0.80 Ea.
5 to 10				.75 Ea.	.75 Ea.
10 to 20				.70 Ea.	.72 Ea.
20 to 25				.67 Ea.	.70 Ea.
25 to 50				.60 Ea.	.69 Ea.
50 to 75				.58 Ea.	.67 Ea.
75 to 100				.55 Ea.	
Stamp Pads, per dozen					\$2.50

## PAGE 58—Continued

CAPONIZING INSTRUMENTS:				Each
Packed 1 to Box	Shipping Weight, 1 lb.			<b>\$3.95</b>
SUPERIOR HATCHING EGG BOXES:				1-9 Doz. Over 10 Doz.
Size	Packed	Shipping Wt.	Doz.	Doz.
15 Egg	12 to Bundle	15 lbs.	<b>\$1.25</b>	<b>\$1.15</b>
30 Egg	12 to Bundle	23 lbs.	<b>2.25</b>	<b>2.15</b>
COMMERCIAL 2 x 6 EGG BOXES (Net Prices in Catalog):				Quantity
	Packed	Shipping Wt.		Per 100
50 to 250	250 to Bundle	40 lbs.		<b>\$1.65</b>
250-5000				<b>1.45</b>
5000 and up				<b>1.35</b>
EAGLE EGG BOXES (Net Prices in Catalog):				Quantity
	Packed	Shipping Wt.		Per 100
50 to 250	250 to Bundle	25 lbs.		<b>\$1.00</b>
250 to 5000				<b>.80</b>
5000 and up				<b>.75</b>
NEST EGGS:				Packed Shipping Wt.
			Dozen	Gross
China	1 Gross to Box	8 lbs.	<b>\$ .25</b>	<b>\$2.25</b>
Chalk	3 Gross to Box	55 lbs.	<b>.35</b>	<b>3.75</b>
EGG CASES (Net Prices in Catalog):				Kind to Bundle Shpg. Wt.
			1 to 25	Bundle Lots
Cottonwood	25	200 lbs.	<b>\$0.40 Ea.</b>	<b>\$0.27 Ea.</b>
Fillers and Flats for same	12-30 Doz. Sets	50 lbs.	<b>.50 Set</b>	<b>2.00 Case</b>
TRAP NEST FRONTS:				Each
			Doz.	
F-59	12 to Box	20 lbs.	<b>\$ .30</b>	<b>\$3.25</b>
63	12 to Box	16 lbs.	<b>.40</b>	<b>4.80</b>

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MAGNOLIA SHIPPING BOX (Net Price in Catalog):					
Size	Packed	Wt.	12 to 500	500 & Up	
100 Chick Standard	12	28 lbs.	\$ .09¼		\$ .08¾
50 Chick Standard	12	17 lbs.	.06½		.06
25 Chick Standard	12	10 lbs.	.04½		.04
100 Chick Hot Weather	12	32 lbs.	.10½		.09¾
50 Chick Hot Weather	12	19 lbs.	.07½		.06¾
25 Chick Hot Weather	12	11 lbs.	.05		.04½
MAGNOLIA CUSTOM HATCH BOXES					
(Net Prices in Catalog):					
Size	to Bundle	Shpg.Wt.	Under 500	500-5000	5000 & Up
25 Chick	100	41 lbs.	\$3.25	\$3.15	\$3.00
50 Chick	100	72 lbs.	4.75	4.65	4.50
STAPLERS (Net Prices in Catalog):					
					Price
1-H	1 to Box	12 lbs.			\$8.10
1	1 to Box	9½ lbs.			6.50
STAPLES (Net Prices in Catalog):					
					Box
XX	5000 to Box	2 lbs.			\$1.25
61	5000 to Box	2 lbs.			1.60
Tin Hand Staples	1000 to Box	2 lbs.			.75
Copper Coated Stpls.	1000 to Box	2 lbs.			.90
Staple Tool					.35
MOTO-AIR (Net Price in Catalog):			F.O.B. Kansas City		
					Each
2715	1 to Carton	17 lbs.			\$31.50
CHICK BOX SUPPLIES (Net Prices in Catalog):					
					Each
Ventilating Punch		1 lb.			\$ .25
Ventilating Box Strips,					
6-inch, Bag of 500		40 lbs.			1.40
Hatchery Glue, 1 Gallon		12 lbs.			.90
Hatchery Glue, 5 Gallons		60 lbs.			3.50
Sisal Twine, 5 lb. Balls		5 lbs.			1.75
2-inch Paper Sealing Tape		3 lbs.			.50
Wood Wool, fine pine, bales		100 lbs.			2.65
Wood Wool, medium pine, bales		100 lbs.			2.15
Wood Wool, cottonwood, bales		100 lbs.			3.50
Wood Wool Pads:					
50 to bale, less than 20 bales		7 lbs.			.50
20 bales or more		7 lbs.			.45
WAKE-O TEMPERATURE ALARM (Net Prices in Catalog):					
Packed	Shipping Wt.				Each
1 to Box	2 lbs.				\$3.75

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PATTERSON & YOUNG MOISTURE GUIDE:				1 to Box 1/2 lb.	Each \$0.70 Doz. \$8.00
Tubes for Moisture Guides				Each	.40
DOUBLE UNIT WAFER THERMOSTATS:				3-inch Each \$0.25 Doz. \$3.00	
	4-inch Each .20 Doz. 3.50				
	5-inch Each .45 Doz. 5.25				
INCUBATOR THERMOMETERS:				5776 1 to Box 1 lb. \$0.60 Doz. \$6.75	
	800 1 to Box 1 lb.			.50	5.75
SUN HINGED LAMP BURNERS:				No. 1 12 to Carton 3 lbs. \$0.30 Doz. \$3.25	
	No. 2 12 to Carton 4 lbs.			.40	4.80
	No. 3 12 to Carton 5 lbs.			.50	6.00
	No. 3, Dble. 12 to Cart. 6 lbs.			.60	7.10
LAMP BOWLS:				Size For Burner	Packed Doz. Wt. Each Doz.
100	No. 1	12 to box	9 lbs.	\$0.40	\$4.40
101	No. 2	12 to box	13 lbs.	.45	5.25
102	No. 3	12 to box	18 lbs.	.55	6.35



RED FELT LAMP WICKS:				
Size	For Burner	Doz. Wt.	Dozen	Gross
No. 1	No. 1	1 lb.	\$0.20	\$2.25
No. 2	No. 2	1 lb.	.35	4.00
No. 3	No. 3	1 lb.	.40	4.50
ZENITH LAMP BURNERS:				
Size	Packed	Doz. Wt.	Each	Doz.
No. 1	12 to Carton	3 lbs.	\$0.40	\$4.40
No. 2	12 to Carton	4 lbs.	.50	5.85
No. 3	12 to Carton	6 lbs.	.75	8.65
METAL LAMP CHIMNEYS:				
No.	Packed	Doz. Wt.	Each	Doz.
1	12 to Case	4 lbs.	\$0.17	\$1.80
2	12 to Case	4 lbs.	.17	1.80
3	12 to Case	4 lbs.	.17	1.80
SPECIAL HATCHERY HYGROMETER:				
1 to Box	1 lb.			\$4.50 Ea.
Extra Wicks			\$0.12 Ea.	1.25 Doz.
Extra Reservoir				.45 Ea.
HEATING ELEMENTS:				
A-60	12 to Carton	4 lbs.	Each	Dozen
A-600	12 to Carton	5 lbs.	.50	6.00
BROODER THERMOMETERS:				
5792	1 to Box	1 lb.	Each	Doz.
5794	1 to Box	1 lb.	\$0.60	\$6.95
			.40	4.60

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BROODER HOUSE VENTILATORS:				
No.	Packed	Shipping Wt.	Each	Doz.
PBS-12	1 to Carton	25 lbs.	\$5.40	
PBS-9	1 to Carton	18 lbs.	4.40	
PBR-12	1 to Carton	25 lbs.	5.20	
PBR-9	1 to Carton	18 lbs.	4.00	
CBA-9	1 to Carton	9 lbs.	2.20	
CBR-9	1 to Carton	9 lbs.	2.30	
POULTRY PUNCHES:				
38	12 in Carton	5 Oz.	Each	Doz.
39	12 in Carton	12 Oz.	\$1.20	2.80
LEG BANDS: (No boxes broken):				
No.	In Cartons	3 lbs. per	Per 100	Per 1000
130	12-25-50 & 100	1000 Bands	\$0.32	\$3.00
WING BANDS (No boxes broken):				
Sealed	100 to Box		Per 100	
Double End Clinch	100 to Box		\$ .75	
			.50	
RELIABLE SHOW BANDS (No boxes broken):				
Per 100			Each	Doz.
OAT SPROUTERS:	Shipping Wt.		\$1.35	
110	1 to Carton	26 lbs.	\$4.00	
VICTOR SHOW BANDS (No boxes broken):				
Per 100			Each	Doz.
PIGEON BANDS (No boxes broken):			\$2.50	
25 pairs to Box (Nos. 1 to 100). Per 25 pairs			\$ .50	
COLORED LEG BANDS (In multiples of 50):				
No.	For	Per 50	Per 100	Per 1000
4	Baby Chicks	\$0.10	\$0.17	\$1.45
5	Pigeons	.15	.19	1.65
6	Growing Chicks	.15	.24	2.10
9	Leghorns & Anconas	.15	.28	2.55
8	Large Leghorns	.15	.29	2.65
10	Small Americans	.20	.31	3.00
12	Asiatic Hens	.20	.38	3.55
14	Turkey Hens	.35	.60	5.70
16	Turkey Toms	.40	.70	6.85
BANDETTES:				
4	Baby Chicks	Per 50	Per 100	Per 1000
9	Leghorns & Anconas	\$0.40	\$0.75	\$ 6.95
11	Rocks, Reds, etc.	.75	1.40	13.50
FEED AND WATER CUPS:				
61	72 to Carton	17 lbs.	Each	Doz.
			\$0.10	\$1.20
LITTLE PUTNAM STOVES:				
Packed	Shpg. Wt.	Case Lots	Each	Case Lots
6 to Case	13 lbs.		\$1.45	\$1.35
Wicks for same, per doz.			.10	
Wicks and Holders, per doz.			.50	

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BLACK LEAF 40:				
1 Oz.	24 to Box	Case Wt.	3 lbs.	Doz.
5 Oz.	12 to Box	10 lbs.		8.00
1 lb.	12 to Box	25 lbs.		1.80
2 lbs.	12 to Box	32 lbs.	Ea.	2.75
5 lbs.	6 to Box	41 lbs.	Ea.	5.65
10 lbs.	6 to Box	75 lbs.	Ea.	9.85
SODIUM FLUORIDE:				
½ lb. Cans	24 to Box	Case Wt.	3 lbs.	Doz.
1 lb. Cans	12 to Box	15 lbs.		1.85
Bulk, less than 100 lbs., per lb.				.17
100 lbs. or more, per lb.				.16

C-A WOOD PRESERVER:				
Quart	12 to Box	Weight	31 lbs.	Doz.
2 Quart	6 to Box		31 lbs.	\$ 5.00
1 Gallon	6 to Box		62 lbs.	8.75
5 Gallons			50 lbs.	13.75
30 Gallon Drums			250 lbs.	5.35
55 Gallon Drums			475 lbs.	per gal. .88
				.83
BARNES CHICKEN POX REMEDY:				
175 Tablet	12 to Box	2 lbs.		Doz.
465 Tablet	12 to Box	5 lbs.		\$3.95*
				7.95*
BARNES COLD REMEDY:				
2 Oz. Bottle	12 to Box	3 lbs.		Doz.
6 Oz. Bottle	12 to Box	7 lbs.		\$3.95*
16 Oz. Bottle	12 to Box	16 lbs.		7.95*
				11.75*
BARNES DIARRHEA REMEDY:				
Pints	12 to Box	Weight	16 lbs.	Doz.
Gallons	1 Each		13 lbs.	\$ 7.95*
				24.00*
BARNES EMBROCATION:				
2 Oz. Bottle	12 to Box	Weight	3 lbs.	Doz.
4 Oz. Bottle	12 to Box	6 lbs.		\$3.95*
				7.95*
B-K:				
4 Oz.	24 to Case	Case Wt.	16 lbs.	Doz.
10 Oz.	24 to Case		35 lbs.	\$ 2.80
1 Quart	12 to Case		48 lbs.	4.80
1 Gallon	1 to Case		16½ lbs.	10.00
5 Gallon	1 to Case		68 lbs.	Ea. 2.25
				Ea. 8.34

Extra 10% allowed on 1 gallon and 5 gallon sizes ONLY on orders of 25 gallons or more, which may include to make up the 25 gallons carton sizes of B-K (4 Oz., 10 Oz. and 1 Quart).

TOBACCO DUST:				
1-25 lbs.	25-100 lbs.	100 lbs. & over		
per lb.				
1% Nicotine	\$ .07	\$ .06		\$ .05
LEE'S GIZZARD CAPSULES:				
Chick Size (500 to Package)	Per 100	Per 500	Per 1000	
Adult Size (500 to Package)	\$ .60	\$2.35	\$4.00	
	1.20	4.50	8.00	
BARNES EMULSION:				
Quarts	12 to Case	Weight	33 lbs.	Doz.
Gallons	6 to Case		68 lbs.	\$ 8.00*
5 Gallon Kegs			50 lbs.	24.00*
30 Gallon Barrels			300 lbs.	Ea. 8.34*
				Ea. 49.75*

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CARBOLA:				
Packed	Case Wt.	Doz.		
5 lbs.	12 to Case	80 lbs.		\$6.30
10 lbs.	6 to Case	80 lbs.		10.50
25 lbs.	1 to Case	25 lbs.	Ea.	2.00
50 lbs.	1 to Case	50 lbs.	Ea.	3.50
COD LIVER OIL:				
Single Gallons	Case Wt.	Gallon		
5 Gallon lots	10 lbs.			\$1.60
30 Gallon Drums				1.50
				1.30
EPSOM SALTS:				
1-25 lbs., per lb.		Price		
25 to 50 lbs., per lb.		\$ .05		
100 lbs. and over, per 100 lbs.		.04½		3.75
LEE'S GERMOZONE:				
Packed	Dozen			
4 Oz. Bottle	3 Doz. to Case			\$ 3.00
12 Oz. Bottle	2 Doz. to Case			5.50
32 Oz. Bottle	1 Doz. to Case			11.00
1 Gallon	1 to Case		Ea.	3.00
STERILAC:				
Packed	Case Wt.	Dozen		
2 Oz.	12 to Box	7 lbs.		\$ 8.00
8 Oz.	24 to Box	42 lbs.	Ea.	1.67
16 Oz.	12 to Box	31 lbs.	Ea.	3.35
5 lbs.	6 to Box	34 lbs.	Ea.	12.50
SULPHUR:				
1-25 lbs.	25-100 lbs.	100 lbs. & over		
per lb.	per lb.			
For poultry use:	\$ .05½	\$ .05		\$ .04½
PAR-I-NOX:				
Packed	Case Wt.	Dozen		
12 Oz.	48 to Case	50 lbs.		\$ 2.75
1½ lbs.	24 to Case	46 lbs.		4.75
3 lbs.	12 to Case	45 lbs.		7.75
6 lbs.	6 to Case	44 lbs.		12.00
TOE PICK REMEDY:				
		Per dozen		
WALKO WHITE DIARRHOEA REMEDY:				\$4.50
\$0.50 Size				Dozen
1.00 Size				\$4.00
				8.00
RED ROOSTER ROUP REMEDY:				
8 Oz.	2 Doz. to Case	28 lbs.		Dozen
16 Oz.	1 Doz. to Case	26 lbs.		\$4.75*
				7.95*
DOUBLE D FLOCK WORMER:				
8 Oz.	2 Doz. to Case	28 lbs.		Dozen
16 Oz.	1 Doz. to Case	26 lbs.		\$4.75*
				7.95*
DOUBLE D TONIC:				
8 Oz.	2 Doz. to Case	Shipping Wt.	28 lbs.	Dozen
16 Oz.	1 Doz. to Case		28 lbs.	\$4.75*
				7.95*

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# HOW TO ORDER

**Sending Money:** If your order amounts to more than 50c, send Postoffice or Express money order, cashier or certified check. If you send money with your order, your letter must be **REGISTERED**, as we will not assume responsibility if it is lost. Numbers of orders and letters, with money in them, are lost in ordinary mail yearly, and for that reason all letters and orders containing money should be sent by registered mail.

**Stamps:** On orders for seeds and supplies, where the amount is less than 50c, we will accept U. S. postage stamps in good condition, the same as cash, but it would be best to wrap them in oiled paper to prevent their sticking to the order. We will not assume any responsibility for their receipt and suggest you **REGISTER** your letter if you send stamps.

**C. O. D. Notice:** We will absolutely ship no plants or perishable goods C. O. D. We advise against C. O. D. shipments because of delays and high collection costs to our customers. We accept C. O. D. orders for seeds and supplies where 25 per cent of the amount of the order is sent with the order. This deposit covers collection and return charges in case the order is not called for and paid by the customer.

**About Warranty:** Sherman-Magnolia Seed Company gives no warranty, express or implied, as to description, quality, productiveness or any other matter, of seeds, bulbs,

plants, or nursery stock they send out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are to be returned at once and any money paid for them will be refunded. Crops are dependent for success or failure on so many things besides seed that it is impossible for us to give any warranty or guaranty. We have no control over the seed after they leave our house, especially as to planting, fertilizing, cultivation and other important factors which govern the success of the crop. **NO RESPONSIBLE SEEDSMAN GIVES ANY WARRANTY.**

**We Pay Postage** on all seeds and supplies listed in this catalog, and marked "Prepaid."

**You Pay Transportation Charges** when your order calls for any seed or supplies that are marked "Not Prepaid," or "F. O. B. Dallas." If your order is to be shipped parcel post, it will be necessary for you to send postage covering it as we do not send orders C. O. D. for postage, unless instructed to do so, since collection charges are very high. When postage is not sent, our shipping department cuts down the amount of merchandise ordered, to care for postage, or your order is delayed until we can write you. When your order is to come by express or freight, we can send it collect for transportation charges and you may pay such charges on delivery.

## HOW TO FIGURE POSTAGE

Do not send stamps, but just add the amount for postage to the cost of the merchandise and include it in your remittance. We will return any money left over if you send too much.

If the total weight of the goods you are ordering is a fraction over a pound it will add one pound to the rate. Packages up to 8 ounces in weight are carried at the rate of 1½ cents for each 2 ounces or

fraction thereof, regardless of distance. For rates on packages over 8 ounces, see table below.

Within zones 1, 2 and 3, packages up to 70 pounds in weight are carried. The weight limit for all other zones is 50 pounds.

Explosives, Inflammable Articles, Poisons, and Articles measuring more than 84 inches length and girth combined, cannot be shipped by parcel post, according to the United States postoffice rulings. **OTHER PARCEL POST MATTERS ASK YOUR POSTMASTER.**

## PARCEL POST RATES

	ZONES 1 and 2 —Not over 150 miles from Dallas.	ZONE 3—151 to 300 miles from Dallas.	ZONE 4—301 to 500 miles from Dallas.	ZONE 5—501 to 1000 miles from Dallas.	ZONE 6—1001 miles from Dallas.	ZONE 7—1401 miles from Dallas.	ZONE 8—1801 miles and over from Dallas.
For weights over 8 oz. up to 1 pound the postage is	7 Cents	8 Cents	8 Cents	9 Cents	10 Cents	12 Cents	13 Cents
For each additional pound or fraction of a pound add	1 Cent	2 Cents	4 Cents	6 Cents	8 Cents	10 Cents	12 Cents

**EXAMPLE—**Your shipment weighs 8 pounds 6 ounces. You must figure postage on 9 pounds. If you live in the first or second zone from Dallas you would add 8 pounds at 1 cent per pound or 8 cents to the cost of the first pound, 7 cents, sending a total

of 15 cents for the 9 pounds. If you live in the second zone, you would need to send 8 cents for the first pound and 2 cents each for eight additional pounds or 24c; third zone would figure 40c, etc.

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